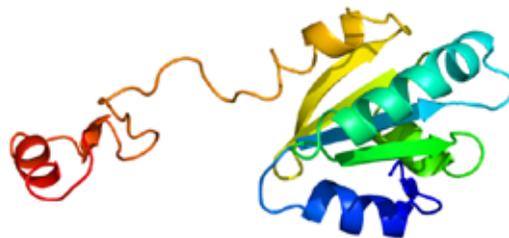


**NEXGEN<sup>®</sup>**  
THE ANTI-AGING



# PROTEIN CATALOG

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**SPIDER  
TOXIN  
PROTEIN**

# NEXGEN®

## The Next Generation of Biotechnology

NEXGEN Biotechnologies, Inc., has been **18** years in Korea, specialties on research and development of recombinant proteins to be used for medical/skincare industry.

NEXGEN Biotechnologies, Inc., has been awarded “Korea’s **10** New Technologies” by the Ministry of Commerce, Industry and Energy in Korea(present, Ministry of Knowledge Economy) in 2005, and appointed as a “National Research Laboratory” in 2006 as well.

NEXGEN Biotechnologies, Inc., has been producing over **100** kinds of special proteins as well as distinctive skincare products “BIOMETICS” which are different from cosmetics.



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# Skincare Specialty Proteins

·BTAL-EGF

·EGF-SV

·TRX-CLT

·EGF-CLT

·GH-SFP

·EGF-AFPSR

·GFP-EGF

·HAS3

·H10/20

·H10-GD11

·H10-EGF

·H10-BZ

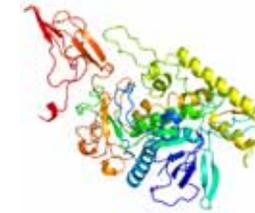
·GD11-SFP

·GH-EGF-IGF-1

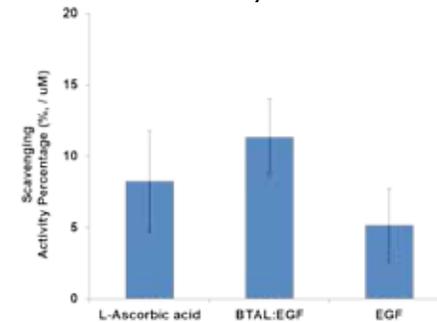
# BTAL-EGF

Botulinum Neurotoxin Type A Protein - Human Epidermal Growth Factor Hybrid Protein

Tertiary Structure of NEX\_BTAL



Anti-oxidant activity



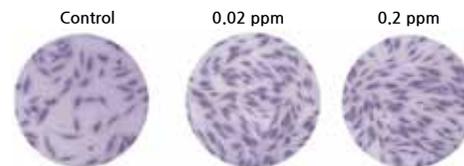
The anti-radical activity of NEX\_BTAL protein was determined by the DPPH method.

Trade Name	NEX_BTAL		
INCI Name	sr-Clostridium Botulinum Polypeptide-1 sh-Oligopeptide-1		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	502
Molecular Weight (kDa)	57.6	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_BTAL		
Application	Skin-Lifting · Wound healing · Hair care · Whitening		

## Features

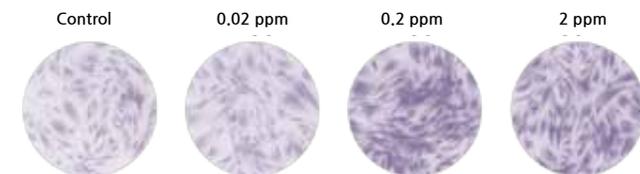
- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the proliferation of hair follicle dermal cells.

## Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_BTAL concentration of 0, 0.02, 0.2 ppm in HDFa cell.

## Effect on Proliferation of HFDP

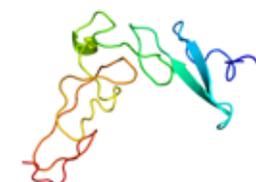


The HFDP cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_BTAL concentration of 0, 0.02, 0.2, 2 ppm in HDFa cell.

# EGF-SV

## Human Epidermal Growth Factor - Spider Venom Hybrid Protein

Tertiary Structure of NEX\_ESV

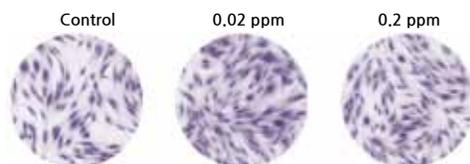


Trade Name	NEX_ESV		
INCI Name	sh-Oligopeptide-1 Alanyl sr-Spider Oligopeptide-1		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	103
Molecular Weight (kDa)	11.7	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_ESV		
Application	Anti-Wrinkle · Skin-Lifting · Wound healing · Hair care		

### Features

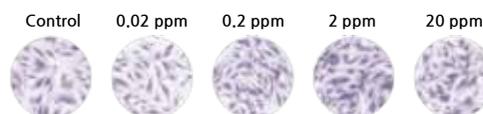
- Reduces and prevent wrinkles.
- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Improves the appearance of age spots.
- Reduces pigmentation and skin irregularities.
- Improves the texture of the skin and its elasticity.
- Stimulates the proliferation of hair follicle dermal cells.

### Effect on Proliferation of HDFa



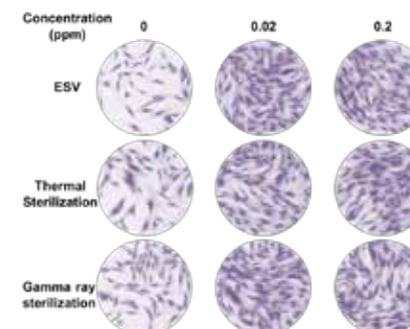
The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_ESV concentration of 0, 0.02, 0.2 ppm in HDFa cell.

### Effect on Proliferation of HFDP

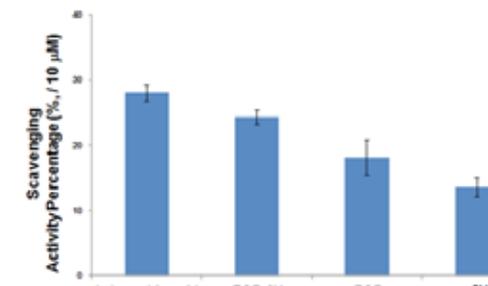


The HFDP cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_ESV concentration of 0, 0.02, 0.2, 2, 20 ppm in HDFa cell.

### Thermal stability



### Anti-oxidant activity



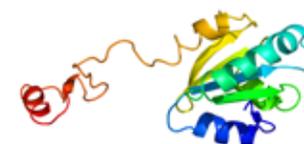
The anti-radical activity of NEX\_ESV protein was determined by the DPPH method.

# TRX-CLT

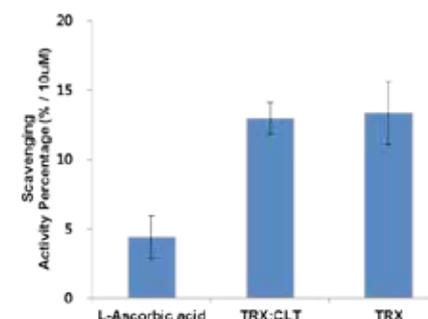
Human Thioredoxin - Chlorotoxin Hybrid Protein

Trade Name	NEX_TCLT		
INCI Name	sh-Polypeptide-2 sr-Egyptian Scorpion Oligopeptide-1		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	141
Molecular Weight (kDa)	15.7	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_TCLT		
Application	Anti-Wrinkle · Skin-Lifting · Anti-Aging		

Tertiary Structure of NEX\_TCLT



Anti-oxidant activity

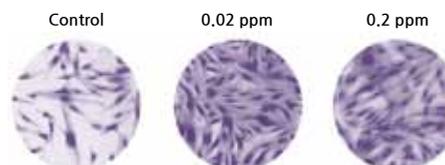


The anti-radical activity of NEX\_TCLT protein was determined by the DPPH method.

## Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Reduces pigmentation and skin irregularities.

## Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_TCLT concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# EGF-CLT

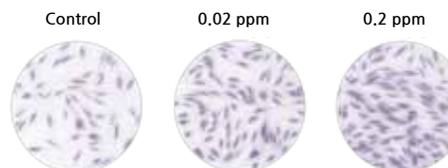
## Human Epidermal Growth Factor - Chlorotoxin Hybrid Protein

Trade Name	NEX_ECLT		
INCI Name	sh-Oligopeptide-1 sr-Egyptian Scorpion Oligopeptide-1		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	90
Molecular Weight (kDa)	10.3	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_ECLT		
Application	Anti-Wrinkle · Skin-Lifting		

### Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.

### Effect on Proliferation of HDFa

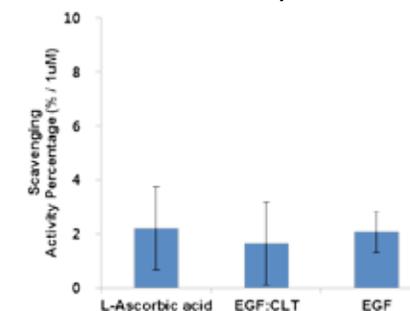


The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_ECLT concentration of 0, 0.02, 0.2 ppm in HDFa cell.

### Tertiary Structure of NEX\_ECLT



### Anti-oxidant activity



The anti-radical activity of NEX\_ECLT protein was determined by the DPPH method.

# GH-SFP

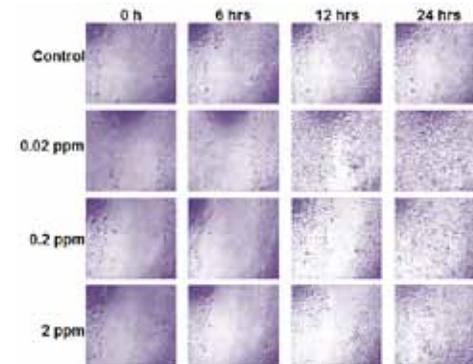
## Human Growth Hormone - Spider Fiber Hybrid Protein

Trade Name	NEX_GS		
INCI Name	Methionyl sh-Polypeptide-7 Dipeptide-19 sr-Spider Polypeptide-4 Hexapeptide-40		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	325
Molecular Weight (kDa)	33.3	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_GS		
Application	Anti-Aging · Anti-Wrinkle · Wound healing		

Tertiary Structure of NEX\_GS



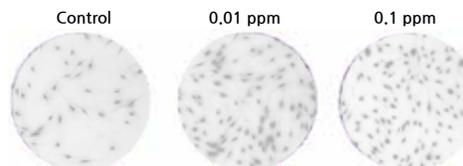
The HaCaT(Human aneuploid immortal keratinocyte) cell migration



### Features

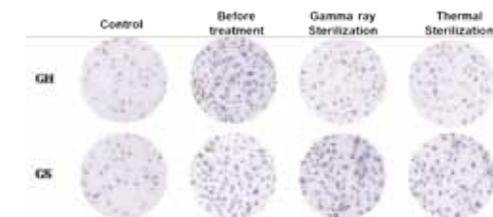
- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Improves the appearance of age spots.
- Reduces pigmentation and skin irregularities.
- Improves the texture of the skin and its elasticity.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_GS concentration of 0, 0.01, 0.1 ppm in HDFa cell.

### Thermal stability



# EGF-AFPSR

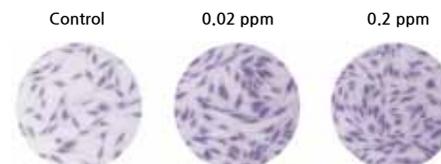
Human Epidermal Growth Factor - Anti-freezing Protein(Sea Raven) Hybird Protein

Trade Name	NEX_EAFPSR		
INCI Name	sh-Oligopeptide-1 sr-Sea Raven Polypeptide-1		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	182
Molecular Weight (kDa)	20.2	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_EAFPSR		
Application	Anit-wrinkle · Anti-oxidant · Whitening · Hair care		

## Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the proliferation of hair follicle dermal cells.

## Effect on Proliferation of HDFa

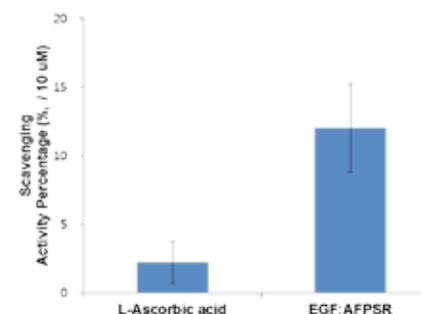


The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_EAFPSR concentration of 0, 0.02, 0.2 ppm in HDFa cell.

## Tertiary Structure of NEX\_EAFPSR

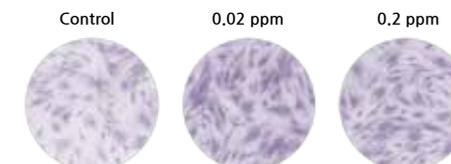


## Anti-oxidant activity



The anti-radical activity of NEX\_EAFPSR protein was determined by the DPPH method.

## Effect on Proliferation of HFDP



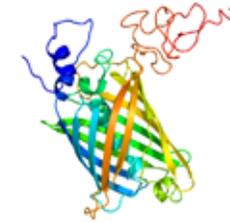
The HFDP cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_EAFPSR concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# GFP-EGF

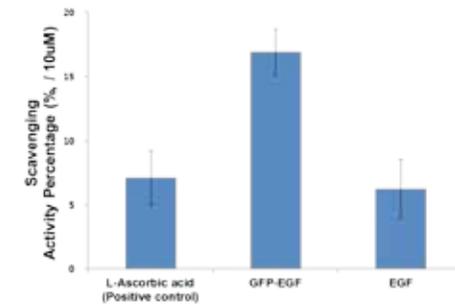
Green Fluorescent Protein - Human Epidermal Growth Factor Hybrid Protein

Trade Name	NEX_GFPEGF		
INCI Name	sr-Jellyfish Polypeptide-1 sh-Oligopeptide-1		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	291
Molecular Weight (kDa)	33.2	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_GFPEGF		
Application	Anti-Wrinkle · Skin-Lifting · Wound healing · Anti-Oxidant · Whitening		

Tertiary Structure of NEX\_GFPEGF



Anti-oxidant activity

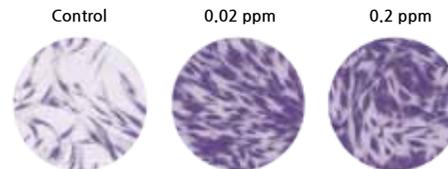


The anti-radical activity of NEX\_GFPEGF protein was determined by the DPPH method.

## Features

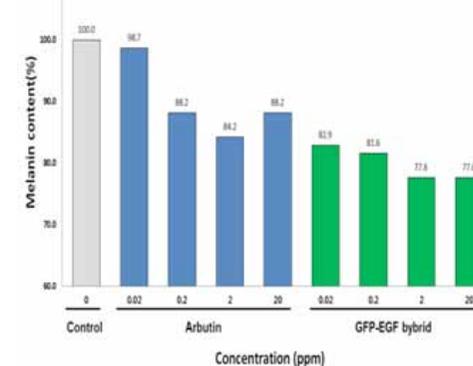
- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Improves the appearance of age spots.
- Reduces pigmentation and skin irregularities.
- Improves the texture of the skin and its elasticity.
- Anti-oxidant that reduces free radicals and inhibits the aged skin cells.
- Provides a gorgeous up lifted complexion by reinforcing skin's defenses.

## Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_GFPEGF concentration of 0, 0.02, 0.2 ppm in HDFa cell.

## Whitening effect



# HAS3

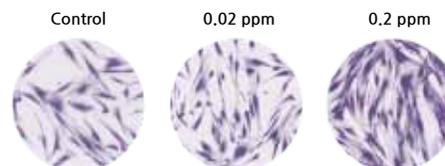
## Hyaluronic Acid Synthase 3

Trade Name	NEX_HAS3		
INCI Name	sh-Polypeptide-91		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	553
Molecular Weight (kDa)	63	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_HAS3		
Application	Anti-Wrinkle · Anti-Aging · Wound healing		

### Features

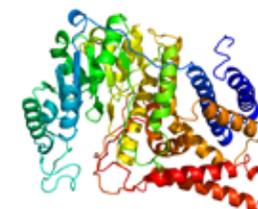
- Reduces and prevent wrinkles.
- Hydrating and moisturising the skin from the inside and with this helps to smooth out wrinkles.
- Promote healing and to fight inflammatory conditions of the skin.
- Supples smooth skin.

### Effect on Proliferation of HDFa

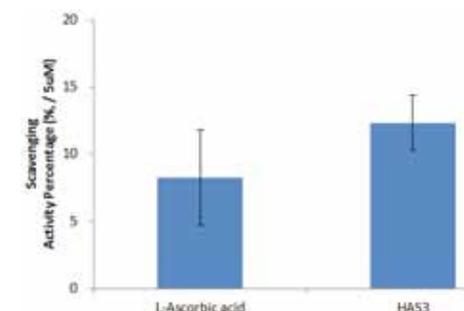


The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_HAS3 concentration of 0, 0.02, 0.2 ppm in HDFa cell.

### Tertiary Structure of NEX\_HAS3

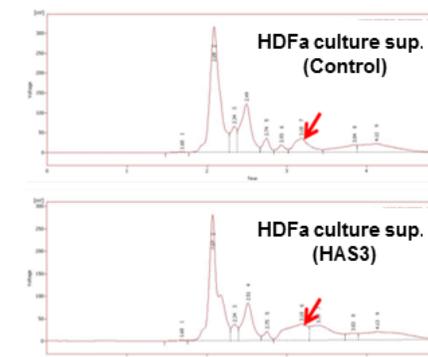


### Anti-oxidant activity



The anti-radical activity of NEX\_HAS3 protein was determined by the DPPH method.

### Synthesis of hyaluronic acid

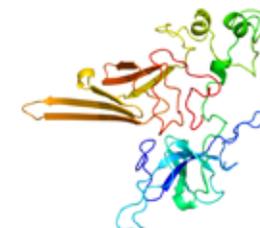


# H10/20

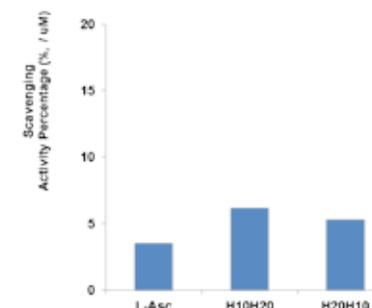
Heat Shock Protein 10-Heat Shock Protein 20 Hybrid Protein

Trade Name	NEX_H10/20		
INCI Name	In progress		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	283
Molecular Weight (kDa)	31	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_H10/20		
Application	Anti-Aging · Anti-Wrinkle · Anti-Oxidant		

Tertiary Structure of NEX\_H10/20



Anti-oxidant activity

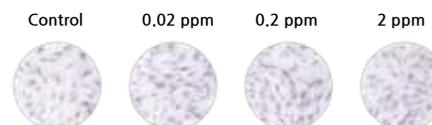


The anti-radical activity of NEX\_H10/20 protein was determined by the DPPH method.

## Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles.
- Anti-Oxidant that reduces free radicals and inhibits the aged skin cells.

## Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_H10/20 concentration of 0, 0.02, 0.2, 2 ppm in HDFa cell.

# H10-GD11

## Heat Shock Protein 10-Growth Differentiation Factor 11 Hybrid Protein

Tertiary Structure of NEX\_H10-GD11

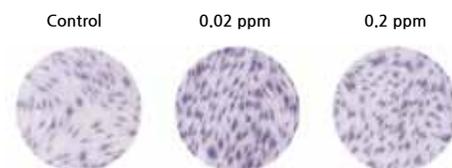


Trade Name	NEX_H10-GD11		
INCI Name	In progress		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	219
Molecular Weight (kDa)	24.4	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_H10-GD11		
Application	Anti-Wrinkle · Wound healing		

### Features

- Stimulates the proliferation of a wide range of epidermal and epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.

### Effect on Proliferation of HDFa



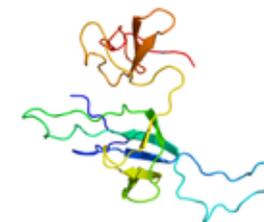
The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_H10-GD11 concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# H10-EGF

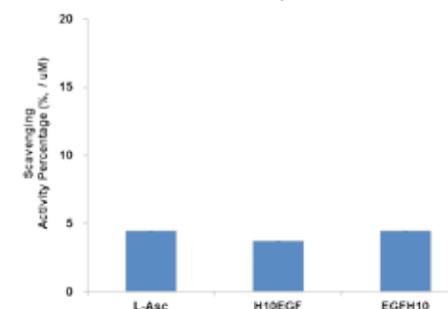
## Heat Shock Protein 10-Epidermal Growth Factor Hybrid Protein

Trade Name	NEX_H10-EGF		
INCI Name	In progress		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	155
Molecular Weight (kDa)	17.1	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_H10-EGF		
Application	Anti-Aging · Anti-Wrinkle · Anti-Oxidant		

Tertiary Structure of NEX\_H10-EGF



Anti-oxidant activity

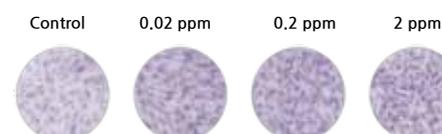


The anti-radical activity of NEX\_H10-EGF protein was determined by the DPPH method.

### Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles.
- Anti-Oxidant that reduces free radicals and inhibits the aged skin cells.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_H10-EGF concentration of 0, 0.02, 0.2, 2 ppm in HDFa cell.

# H10-BZ

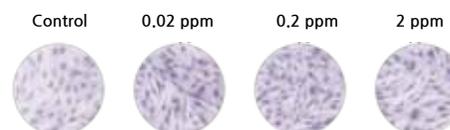
## Heat Shock Protein 10-BRAZZEIN Hybrid Protein

Trade Name	NEX_H10-BZ		
INCI Name	In progress		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	157
Molecular Weight (kDa)	17.5	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_H10-BZ		
Application	Anti-Aging · Anti-Wrinkle		

### Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles.
- Anti-Oxidant that reduces free radicals and inhibits the aged skin cells.

### Effect on Proliferation of HDFa

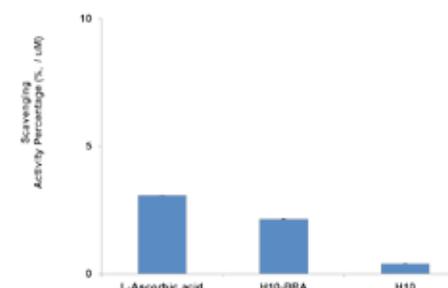


The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_H10-BZ concentration of 0, 0.02, 0.2, 2 ppm in HDFa cell.

### Tertiary Structure of NEX\_H10-BZ



### Anti-oxidant activity



The anti-radical activity of NEX\_H10-BZ protein was determined by the DPPH method.

# GD11-SFP

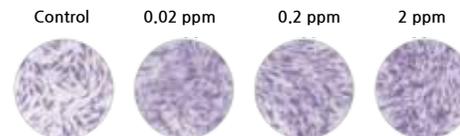
Human Growth Differentiation factor 11-Spider Fiber Hybrid protein

Trade Name	NEX_GD11-SFP		
INCI Name	In progress		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	213
Molecular Weight (kDa)	20.5	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_GD11-SFP		
Application	Anti-Aging · Anti-Wrinkle		

## Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles.

## Effect on Proliferation of HDFa



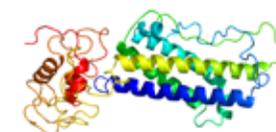
The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_GD11-SFP concentration of 0, 0.02, 0.2, 2 ppm in HDFa cell.

# GH-EGF-IGF-1

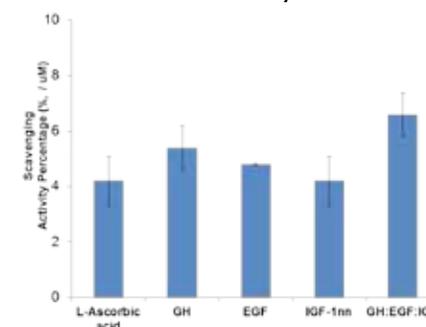
Human Growth Hormone - Epidermal Growth Factor - Insulin Like Growth Factor 1, Triple Fusion Hybrid Protein

Trade Name	NEX_GEI		
INCI Name	Methionyl sh-Polypeptide-7 sh-Oligopeptide-1 sh-Oligopeptide-2		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	315
Molecular Weight (kDa)	36.1	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_GEI		
Application	Anti-Wrinkle · Anti-Aging · Skin-Lifting · Healing of Wounds		

Tertiary Structure of NEX\_GEI



Anti-oxidant activity

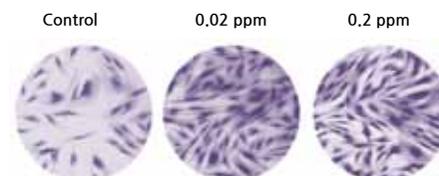


The anti-radical activity of NEX\_GEI protein was determined by the DPPH method.

## Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Growth support for skin cells as like IGF.
- Support young and healthy skin.
- Improves the appearance of age spots.
- Reduces pigmentation and skin irregularities.
- Improves the texture of the skin and its elasticity.
- Growth support for skin with EGF.
- Restore reduced activity with age.

## Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_GEI concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# Skincare Growth Factors

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- sh-EGF
- sh-aFGF
- sh-bFGF
- sh-IGF-1
- sh-IGF-2
- sh-KGF

- sh-bNGF
- sh-GH
- sh-VEGF121
- sh-TGF- $\alpha$
- sh-TGF- $\beta$
- sh-SCGF

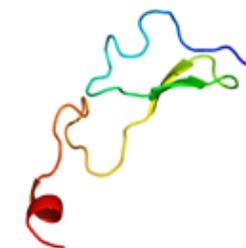
- sh-THY-b4
- sh-PRX1
- sh-PRX2
- sh-SOD
- sh-TRX

# sh-EGF

## Synthetic Human Epidermal Growth Factor

Trade Name	NEX_hEGF		
INCI Name	sh-Oligopeptide-1		
CAS #	62253-63-8		
Source	<i>Escherichia coli</i>	Amino Acid	53
Molecular Weight (kDa)	6.2	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_hEGF		
Application	Anti-Wrinkle · Skin-Lifting · Wound healing		

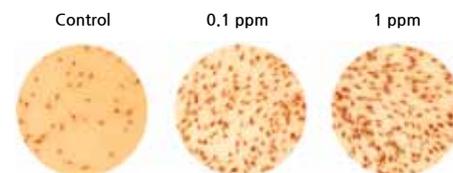
Tertiary Structure of NEX\_hEGF



### Features

- Stimulates the proliferation of a wide range of epidermal and epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Improves the appearance of age spots.
- Reduces pigmentation and skin irregularities.
- Improves the texture of the skin and its elasticity.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_hEGF concentration of 0, 0.1, 1 ppm in HDFa cell.

# sh-aFGF

## Synthetic Human Acidic Fibroblast Growth Factor

Tertiary Structure of NEX\_aFGF



Trade Name	NEX_aFGF		
INCI Name	rh-Polypeptide-11		
CAS #	106096-92-8		
Source	<i>Escherichia coli</i>	Amino Acid	140
Molecular Weight (kDa)	15.8	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_aFGF		
Application	Anti-Aging · Anti-Wrinkle · Anti-Hair Loss · Hair Growth		

### Features

- Wound healing.
- Restore reduced activity with age.
- Stimulates the synthesis of collagen.
- Stimulation on hair formation and regeneration.
- Support hair follicle cell and growth.

# sh-bFGF

## Synthetic Human Basic Fibroblast Growth Factor

Trade Name	NEX_bFGF		
INCI Name	rh-Polypeptide-1		
CAS #	106096-93-9		
Source	<i>Escherichia coli</i>	Amino Acid	154
Molecular Weight (kDa)	17.1	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_bFGF		
Application	Anti-Aging · Anti-Wrinkle · Anti-Hair Loss · Hair Growth		

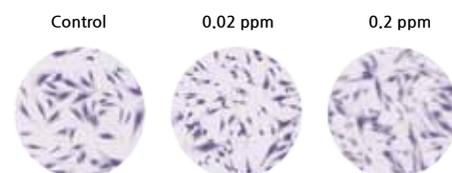
Tertiary Structure of NEX\_bFGF



### Features

- Wound healing.
- Restore reduced activity with age.
- Stimulates the synthesis of collagen.
- Stimulation on hair formation and regeneration.
- Support hair follicle cell and growth.

### Effect on Proliferation of HDFa

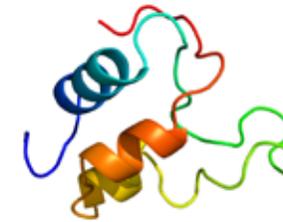


The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_bFGF concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-IGF-1

## Synthetic Human Insulin Like Growth Factor-1

Tertiary Structure of NEX\_IGF-1

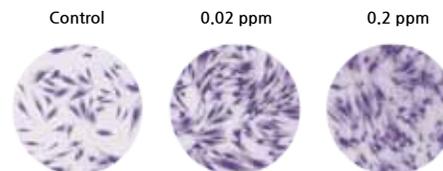


Trade Name	NEX_IGF-1		
INCI Name	rh-Oligopeptide-2		
CAS #	67763-96-6		
Source	<i>Escherichia coli</i>	Amino Acid	70
Molecular Weight (kDa)	7.6	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_IGF-1		
Application	Anti-Aging · Anti-Wrinkle		

### Features

- Growth support for skin with EGF.
- Restore reduced activity with age.
- Stimulates the synthesis of collagen.
- Support young and healthy skin.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_IGF-1 concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-IGF-2

## Synthetic Human Insulin Like Growth Factor-2

Trade Name	NEX_IGF-2		
INCI Name	rh-Polypeptide-31		
CAS #	67763-97-7		
Source	<i>Escherichia coli</i>	Amino Acid	66
Molecular Weight (kDa)	7.3	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_IGF-2		
Application	Anti-Aging · Anti-Wrinkle		

Tertiary Structure of NEX\_IGF-2



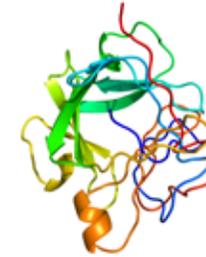
### Features

- Growth support for skin with EGF.
- Restore reduced activity with age.
- Stimulates the synthesis of collagen.
- Support young and healthy skin.

# sh-KGF

## Synthetic Human Keratinocyte Growth Factor

Tertiary Structure of NEX\_KGF

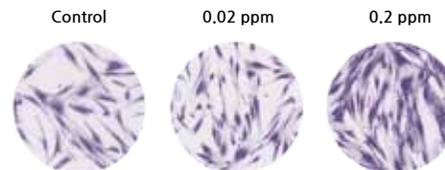


Trade Name	NEX_KGF		
INCI Name	rh-Polypeptide-3		
CAS #	148348-15-6		
Source	<i>Escherichia coli</i>	Amino Acid	163
Molecular Weight (kDa)	18.9	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_KGF		
Application	Anti-Wrinkle · Skin Firming · Hair Growth		

### Features

- Reduces and prevents wrinkles by generating new skin cells.
- Refines texture glides effectively and lights up skin.
- Follicles to produce strong hair shaft.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_KGF concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-bNGF

## Synthetic Human beta-Neur Growth Factor

Trade Name	NEX_bNGF		
INCI Name	sh-Polypeptide-14		
CAS #	86923-98-0		
Source	<i>Escherichia coli</i>	Amino Acid	120
Molecular Weight (kDa)	13.5	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_bNGF		
Application	Anti-Aging · Anti-Wrinkle · Anti-Hair Loss · Hair Growth		

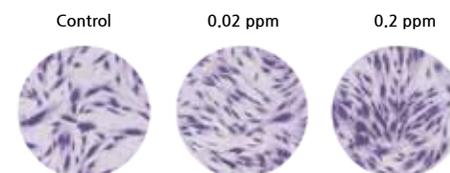
Tertiary Structure of NEX\_bNGF



### Features

- Restore the reduced activity with age.
- Stimulate the collagen synthesis in aged skin.
- Wound healing.
- Support hair follicle cells and growth.
- Stimulate the hair formation and regeneration.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_bNGF concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-GH

## Synthetic Human Growth Hormone

Tertiary Structure of NEX\_GH

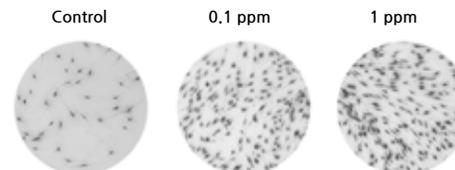


Trade Name	NEX_GH		
INCI Name	rh-Polypeptide-7		
CAS #	12629-01-5		
Source	<i>Escherichia coli</i>	Amino Acid	191
Molecular Weight (kDa)	22.2	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_GH		
Application	Anti-Wrinkle · Anti-Aging		

### Features

- Stimulates the proliferation of a wide range of epidermal cells.
- Reduces and prevent wrinkles by generating new skin cells.
- Stimulates the synthesis of collagen.
- Wound healing.
- Growth support for skin cells as like IGF.
- Support young and healthy skin.

### Effect on Proliferation of HDFa



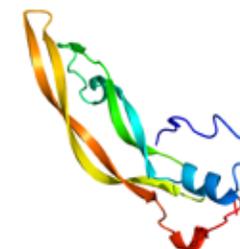
The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_GH concentration of 0, 0.1, 1 ppm in HDFa cell.

# sh-VEGF121

## Synthetic Human Vascular Endothelial Cell Growth Factor

Trade Name	NEX_VEGF121		
INCI Name	rh-Polypeptide-9		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	121
Molecular Weight (kDa)	14.05	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_VEGF121		
Application	Hair Growth		

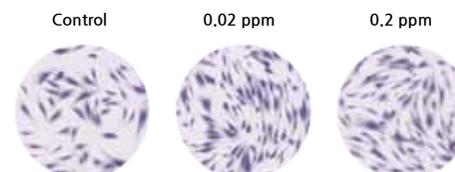
Tertiary Structure of NEX\_VEGF121



### Features

- Hair growth stimulation through the facilitation of nutrient feeding to hair follicle.
- Induces angiogenesis.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_VEGF121 concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-TGF- $\alpha$

## Synthetic Human Transforming Growth Factor-alpha

Tertiary Structure of NEX\_TGF- $\alpha$



Trade Name	NEX_TGF- $\alpha$		
INCI Name	rh-Polypeptide-19		
CAS #	105186-99-0		
Source	<i>Escherichia coli</i>	Amino Acid	50
Molecular Weight (kDa)	5.5	pH	7.2 $\pm$ 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_TGF- $\alpha$		
Application	Anti-Wrinkle · Skin Lifting · Skin Firming		

### Features

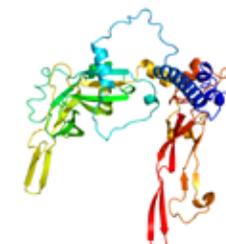
- Reduces and prevents lines and wrinkles by actively generating new skin cells.
- Enhances tone for skin that brimming with vitality & energy.
- Nourishes skin that appears smoother, brighter & regains its youthful look.
- Eliminates scars on face by forming new skin cells.

# sh-TGF-β

## Synthetic Human Transforming Growth Factor-beta

Trade Name	NEX_TGF-β		
INCI Name	rh-Polypeptide-22		
CAS #	98726-64-8		
Source	<i>Escherichia coli</i>	Amino Acid	390
Molecular Weight (kDa)	44.3	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_TGF-β		
Application	Anti-Wrinkle · Skin Lifting · Skin Firming		

Tertiary Structure of NEX\_TGF-β



### Features

- Cures aging by inducing the proliferation, growth and differentiation of skin cells.
- Refines texture glides (collagen) effectively and light up your skin.
- Minimizes wound areas by inducing the formation of new skin cells.

# sh-SCGF

## Synthetic Human Stem Cell Growth Factor

Tertiary Structure of NEX\_SCGF



Trade Name	NEX_SCGF		
INCI Name	rh-Polypeptide-4		
CAS #	133352-98-4		
Source	<i>Escherichia coli</i>	Amino Acid	188
Molecular Weight (kDa)	20.9	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_SCGF		
Application	Anti-Aging · Anti-Wrinkle		

### Features

- Prevent wrinkle formation by creating new epidermal cells.
- Hydrate dry skin and maintain optimal moisture level.

# sh-PRX1

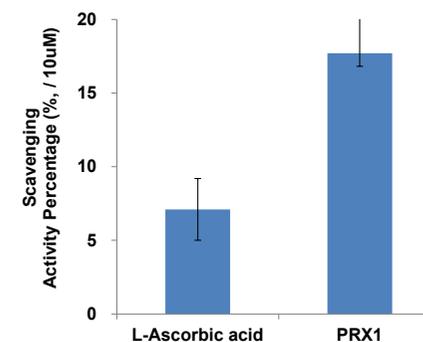
## Synthetic Human Peroxiredoxin 1

Trade Name	NEX_PRX1		
INCI Name	rh-Polypeptide-79		
CAS #	75227-39-3		
Source	<i>Escherichia coli</i>	Amino Acid	199
Molecular Weight (kDa)	22.1	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_PRX1		
Application	Anti-Oxidant · Skin Whitening		

Tertiary Structure of NEX\_PRX1



Anti-oxidant activity

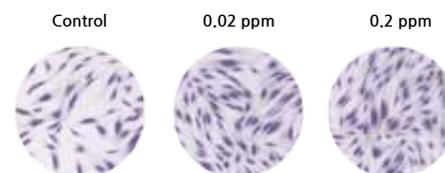


The anti-radical activity of NEX\_PRX1 protein was determined by the DPPH method.

### Features

- Anti-oxidant that reduces free radicals and inhibits the aged skin cells.
- Provides a gorgeous up lifted complexion by reinforcing skin's defenses.
- Reduces and prevents lines and wrinkles by actively generating new skin cells.

### Effect on Proliferation of HDFa



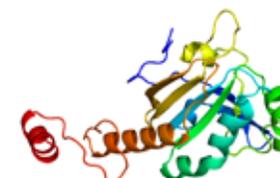
The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_PRX1 concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-PRX2

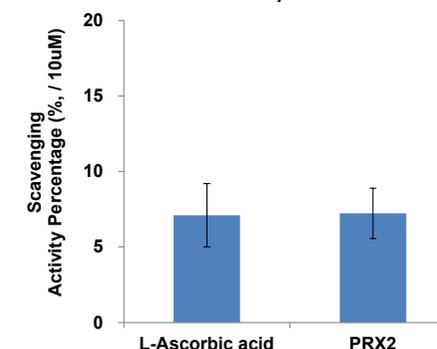
## Synthetic Human Peroxiredoxin 2

Trade Name	NEX_PRX2		
INCI Name	rh-Polypeptide-80		
CAS #	None		
Source	<i>Escherichia coli</i>	Amino Acid	198
Molecular Weight (kDa)	21.9	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_PRX2		
Application	Anti-Oxidant · Skin Whitening		

Tertiary Structure of NEX\_PRX2



Anti-oxidant activity

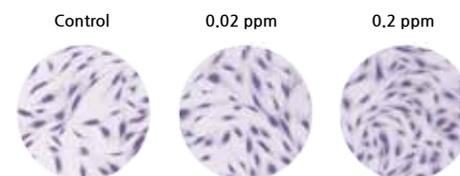


The anti-radical activity of NEX\_PRX2 protein was determined by the DPPH method.

### Features

- Anti-oxidant that reduces free radicals and inhibits the aged skin cells.
- Provides a gorgeous up lifted complexion by reinforcing skin's defenses.
- Reduces and prevents lines and wrinkles by actively generating new skin cells.

### Effect on Proliferation of HDFa



The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_PRX2 concentration of 0, 0.02, 0.2 ppm in HDFa cell.

# sh-TRX

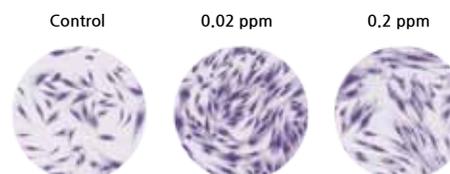
## Synthetic Human Thioredoxin

Trade Name	NEX_TRX		
INCI Name	rh-Polypeptide-2		
CAS #	52500-60-4		
Source	<i>Escherichia coli</i>	Amino Acid	105
Molecular Weight (kDa)	11.7	pH	7.2 ± 0.2
Appearance	Odorless solution		
Endotoxin Level	Less than 0.1 ng/ug of NEX_TRX		
Application	Anti-Oxidant · Skin Whitening		

### Features

- Anti-oxidant that reduces free radicals and inhibits the aged skin cells.
- Provides a gorgeous up lifted complexion by reinforcing skin's defenses.
- Reduces and prevents lines and wrinkles by actively generating new skin cells.

### Effect on Proliferation of HDFa

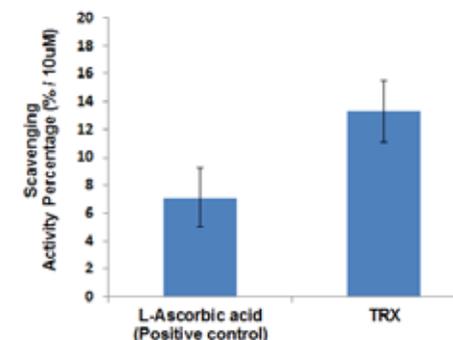


The HDFa cell proliferation stained with crystal violet and imaged with a 40X objective after treatment with NEX\_TRX concentration of 0, 0.02, 0.2 ppm in HDFa cell.

### Tertiary Structure of NEX\_TRX



### Anti-oxidant activity



The anti-radical activity of NEX\_TRX protein was determined by the DPPH method.

# ADVANCED PROTEINS

- BTAL-EGF
- EGF-SV
- TRX-CLT
- EGF-CLT
- GH-SFP
- EGF-AFPSR
- GFP-EGF
- HAS3
- H10/20
- H10-GD11
- H10-EGF
- H10-BZ
- GD11-SFP
- GH-EGF-IGF-1

- HIV-124
- HIV-141
- HIV-1120
- HIV-236
- PV-CSP
- TB-16
- TB-35
- TB-85
- SY-15
- SY-17
- SY-47
- PV-MSP

Skincare  
Specialty Proteins

Skincare  
Growth Factors

Antigens  
for Diagnostics

- sh-EGF
- sh-aFGF
- sh-bFGF
- sh-IGF-1
- sh-IGF-2
- sh-KGF
- sh-bNGF
- sh-GH
- sh-VEGF121
- sh-TGF- $\alpha$
- sh-TGF- $\beta$
- sh-SCF
- sh-PRX1
- sh-PRX2
- sh-TRX

# Antigens for Diagnostics

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·HIV-124

·HIV-141

·HIV-1120

·HIV-236

·PV-CSP

·TB-16

·TB-35

·TB-85

·SY-15

·SY-17

·SY-47

·PV-MSP

# HIV-1 p24 Ag Recombinant

Catalog No.	NG-HIV-124
Quantity	As requested
Full Name	HIV-1 p24 Ag Recombinant
Description	Human Immunodeficiency Virus Type 1 (HIV-1) Antigen, p24, Recombinant contains the most immunoreactive region of HIV-1 p24. Immunoreactive with HIV-1 positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-HIV-124 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

※FOR *in vitro* RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

# HIV-1 gp41 Ag Recombinant

Catalog No.	NG-HIV-141
Quantity	As requested
Full Name	HIV-1 gp41 Ag Recombinant
Description	Human Immunodeficiency Virus Type 1 (HIV-1) Antigen, gp41, Recombinant contains the most immunoreactive region of HIV-1 gp41. Immunoreactive with HIV-1 positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-HIV-141 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

※FOR *in vitro* RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

# HIV-1 gp120 Ag Recombinant

Catalog No.	NG-HIV-1120
Quantity	As requested
Full Name	HIV-1 gp120 Ag Recombinant
Description	Human Immunodeficiency Virus Type 1 (HIV-1) Antigen, gp120, Recombinant contains the most immunoreactive region of HIV-1 gp120. Immunoreactive with HIV-1 positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-HIV-1120 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

※FOR *in vitro* RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

# HIV-2 gp36 Ag Recombinant

Catalog No.	NG-HIV-236
Quantity	As requested
Full Name	HIV-2 gp36 Ag Recombinant
Description	Human Immunodeficiency Virus Type 2 (HIV-2) Antigen, gp36, Recombinant contains the most immunoreactive region of HIV-2 gp36. Immunoreactive with HIV-2 positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-HIV-236 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

※FOR *in vitro* RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

# Pv CSP Ag Recombinant

Catalog No.	NG-PV-CSP
Quantity	As requested
Full Name	Pv CSP Ag Recombinant
Description	<i>Plasmodium vivax</i> Antigen, CSP, Recombinant contains the most immunoreactive region of Pv CSP. Immunoreactive with Pv positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-PV-CSP should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

※FOR *in vitro* RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

## TB 16 kDa Ag Recombinant

Catalog No.	NG-TB-16
Quantity	As requested
Full Name	TB 16 kDa Ag Recombinant
Description	<i>Mycobacterium tuberculosis</i> Antigen, 16 kDa, Recombinant contains the most immunoreactive region of TB 16 kDa. Immunoreactive with TB positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-TB-16 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

※FOR *in vitro* RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

## TB 35kDa Ag Recombinant

Catalog No.	NG-TB-35
Quantity	As requested
Full Name	TB 35 kDa Ag Recombinant
Description	<i>Mycobacterium tuberculosis</i> Antigen, 35 kDa, Recombinant contains the most immunoreactive region of TB 35 kDa. Immunoreactive with TB positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-TB-35 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

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## TB 85 kDa Ag Recombinant

Catalog No.	NG-TB-85
Quantity	As requested
Full Name	TB 85 kDa Ag Recombinant
Description	<i>Mycobacterium tuberculosis</i> Antigen, 85 kDa, Recombinant contains the most immunoreactive region of TB 85 kDa. Immunoreactive with TB positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-TB-85 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

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# Syphilis 15 kDa Ag Recombinant

Catalog No.	NG-SY-15
Quantity	As requested
Full Name	Syphilis 15 kDa Ag Recombinant
Description	Syphilis Antigen, 15 kDa, Recombinant contains the most immunoreactive region of Syphilis 15 kDa. Immunoreactive with Syphilis positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-SY-15 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

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# Syphilis 17 kDa Ag Recombinant

Catalog No.	NG-SY-17
Quantity	As requested
Full Name	Syphilis 17kDa Ag Recombinant
Description	Syphilis Antigen, 17 kDa, Recombinant contains the most immunoreactive region of Syphilis 17 kDa. Immunoreactive with Syphilis positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-SY-17 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

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# Syphilis 47 kDa Ag Recombinant

Catalog No.	NG-SY-47
Quantity	As requested
Full Name	Syphilis 47 kDa Ag Recombinant
Description	Syphilis Antigen, 47 kDa, Recombinant contains the most immunoreactive region of Syphilis 47 kDa. Immunoreactive with Syphilis positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-SY-47 should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

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## Pv MSP Ag Recombinant

Catalog No.	NG-PV-MSP
Quantity	As requested
Full Name	Pv MSP Ag Recombinant
Description	<i>Plasmodium vivax</i> Antigen, MSP, Recombinant contains the most immunoreactive region of Pv MSP. Immunoreactive with Pv positive sera.
Source	<i>Escherichia coli</i>
Reconstitution	Renaturated purified antigen in phosphate buffered saline (pH7.2).
Applications	Suitable for use in ELISA and Western blots as a conjugate. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	NG-PV-MSP should be stored at -80°C for long-term and -20°C less than one month. Please prevent freeze-thaw cycles; Avoid multiple freeze-thaw cycles.
Concentration	As available.
Purity	> 95% pure as estimated by analysis of Coomassie blue stained SDS-PAGE.

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# NEXGEN Biotechnologies, Inc.

## Company History

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- 2016. 12 Identified QMS(Quality Management System : KS I ISO 14001 : 2009 / ISO 14001 : 2004) by SBC certification institution
- 05 Awarded 2016 No.1 Best patent of Korea “Mass production of r-Spider Toxin Protein by genetic engineering technology”
- 2015. 11 Relocating the headquarters of NEXGEN (2F, Building B1, 135, Gasan digital 2-ro, Geumcheon-gu, Seoul, S/Korea)
- 2014. 12 Awarded 2014 No.1 ‘New technology of the Korean Beauty Industry’
- 2014. 09 Identified QMS(Quality Management System : KS Q ISO 9001 : 2009 / ISO 9001 : 2008) by SBC certification institution
- 2008. 11 Relocating the headquarters of NEXGEN to Seoul (371-57, Gasan-dong, Geumcheon-gu, Seoul)
- 2005. 12 Awarded Korea’s 10 Best Technologies of 2005 (Plant-Made Human Protein Pharmaceutical)
- 2001. 12 Awarded “Hiring Disable People” by Daejeon City
- 2000. 11 Awarded Employment Promotion Convention by Ministry of Labor
- 09 Designated as KMP (Korea New Millennium Products) with GM Detection
- 06 Designated as industrial R&D center (Korea Industrial Technology Association, No. 2000-1808)
- 04 Approved as Venture Enterprise by Ministry of Small and Medium Business Administration (No. 2000152271-0542)
- 1999. 11 Incorporation



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VER STAY



**NEXGEN<sup>®</sup>**  
**THE ANTI-AGING**

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