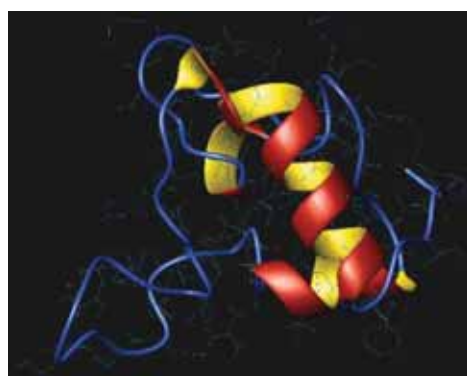


CG-IGF-1 (Insulin-like Growth Factor 1)

INCI Name	Effect	Application
sh-Oligopeptide-2	Anti-wrinkle / Hair growth / Fat Burning	Skin Care / Hair Care / Body Care

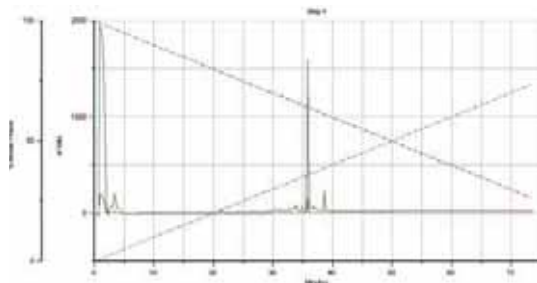


Tertiary structure of IGF-1

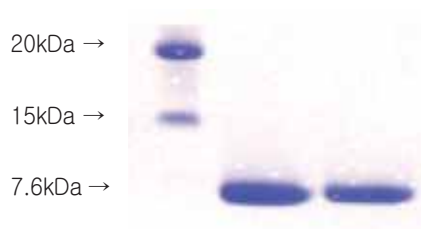
Function

- Reduce and prevent lines and wrinkles by actively generating new skin cells.
- Increase collagen and elastin levels and reduce blotchiness.
- Refine texture glides effectively and slim your face and body with a fat burning effect.
- Strengthen hair while stimulating hair follicles to produce strong hair shaft.

Verified through HPLC and SDS-PAGE



HPLC analysis

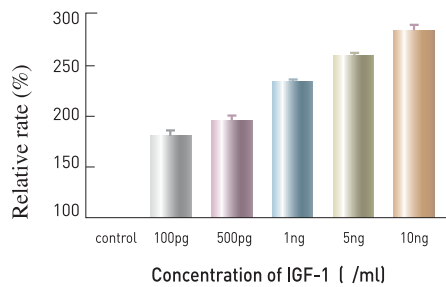


SDS-PAGE analysis

Trade Name	CG-IGF-1
Source	<i>E.coli</i>
Appearance	White Milky Solution
Purity	>95± 1%(SDS-PAGE)
Amino Acid	70a.a
Molecular Weight	7.6 kDa
pH	6.5± 1.00
Shape	Nanosome
Preservative	Phenoxyethanol 0.2%
Recommended Dose	0.5ppm ~ 5ppm
Concentration	10ppm

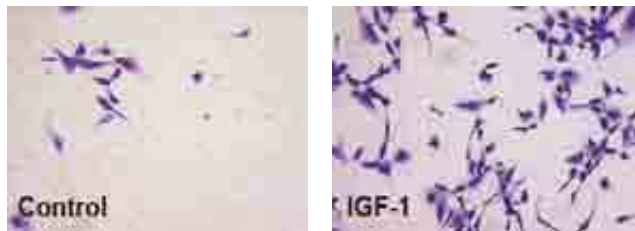
1. CG-IGF-1 & Anti-aging

a CG-IGF-1 Modulates the Skin Rejuvenating by Stimulation of Cell Proliferation



Cell growth assay with fibroblast cell line after CG-IGF-1 treatment for 72hrs. (ED50 is around 80pg/ml)

b Morphological Change of Fibroblast cell



Cell morphology changed after 72hr incubation with CG-IGF-1 (10ng/ml) on fibroblast cell line.

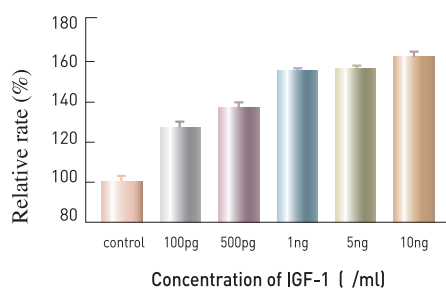
c Skin Histology with CG-IGF-1



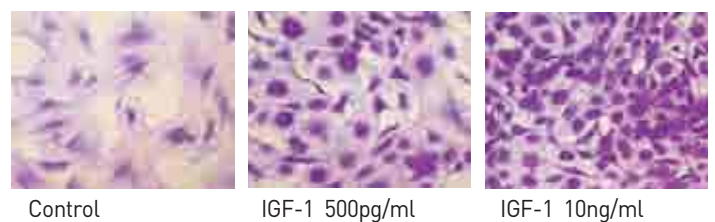
The microscopic image (X400) of skin section of histochemical staining for histology after 5days treatment with CG-IGF-1 nanosome containing cream.

2. CG-IGF-1 & Hair-growth

a Cell Proliferation with Primary Hair Cell b Morphological Change of Primary Hair Cell



Cell growth assay with primary hair cell after CG-IGF-1 treatment for 72hrs.



Cell morphology changed after 72hr incubation with CG-IGF-1 (500pg ~ 10ng/ml) on primary hair cells.