Active Recombinant Human IGF1 protein, hFc&His-tagged

Cat. No. IGF1-126H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 protein(Gly49-Ala118), fused with C-terminal hFc and His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	49-118 aa
Form	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Bio-activity	1. Measured by its ability to stimulate p70 S6 Kinase(Thr389) and p85 S6 Kinase(Thr412) autophosphorylation in 293T human embryonic kidney cells. 0.01-1 ng/mL of Recombinant Human IGF1 can effectively enhance p70 S6 Kinase(Thr389) and p85 S6 Kinase(Thr412) autophosphorylation. 2. Measured by its binding ability in a functional ELISA. Immobilized recombinant human IGFBP6 at 1 μg/mL (100 μL/well) can bind recombinant human IGF1 with a linear range of 30-250 ng/mL. 3.Measured in a cell proliferation assay using MCF-7 cells. The ED50 for this effect is typically 7.5-30 ng/mL, corresponding to a specific activity of 3.33×10^4-1.33×10^5 units/mg.
Molecular Mass	34.44 kDa
Endotoxin	< 0.1 EU/μg of the protein by LAL method.

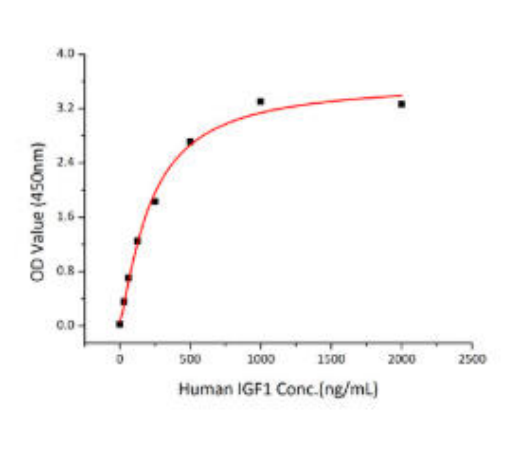
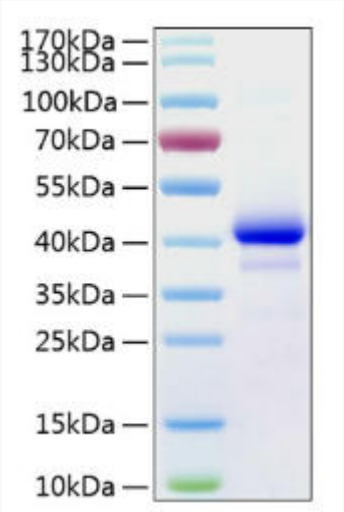
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	≥ 85 % as determined by SDS-PAGE.
Storage	Store at -20°C.Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Reconstitution	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

GENE INFORMATION

Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens]
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGFI; IGF-I;
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440
UniProt ID	P05019

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	
SDS-PAGE	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA