

Active Recombinant Human IGF1 protein, His&hFc-tagged

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

SPECIFICATION

Product Overview	Active Recombinant Human IGF1 protein(NP_001104755.1)(Gly 49-Ala 118) is expressed in HEK293, fused with an Fc, 6×His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	49-118 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.
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.

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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 tube 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 stabilizer (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

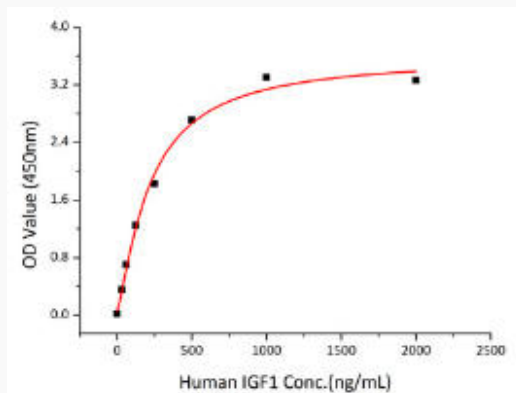
Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens]
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth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

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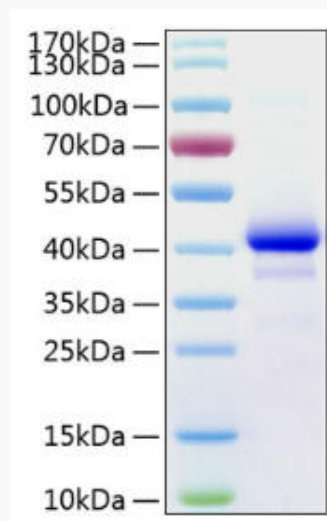
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Activity



SDS-PAGE



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