

Active Recombinant Human IGF1 protein, Fc-tagged

Cat. No. IGF1-0246H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 protein(Gly49-Ala118), fused with Fc tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	49-118 a.a.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human IGF-I, Fc Tag at 5 µg/mL (100 µL/well) can bind Human IGFBP-3, His Tag with a linear range of 0.125-1 µg/mL. Immobilized Human IGF-I R, His Tag at 5 µg/mL (100 µL/well) can bind Human IGF-I, Fc Tag with a linear range of 0.039-0.313 µg/mL.
Molecular Mass	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 34.6 kDa. The protein migrates as 40 kDa under reducing (R) condition (SDS-PAGE).
Proteinlength	Gly49-Ala118
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>98% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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

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