

Active Recombinant Human IGF1 protein (Gly49-Ala118(Glu 51 Arg))

Cat. No. IGF1-55H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IGF1 (P05019-1) (Gly49-Ala118, with mutation Glu 51 Arg) protein, fused with a 13 amino acids (MFPAMPLSSLFVN) at the N-terminus, was expressed in HEK293 Cells.
Species	Human
Source	Yeast
ProteinLength	49-118 a.a.
CommonName	IGF1
Predicted N Terminal	Met
Form	Lyophilized from sterile PBS, pH7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
Bio-activity	Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is typically 1.5-6 ng/mL.
Molecular Mass	The recombinant human IGF1 consists of 83 amino acids and predicts a molecular mass of 9.1 kDa.
Purity	> 95% as determined by SDS-PAGE.

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Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

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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