

Active Recombinant Human IGF1 Protein (Gly49-Ala118), C-His tagged, Animal-free, Carrier-free

Cat. No. IGF1-158H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 Protein (Gly49-Ala118) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Gly49-Ala118
Description	Insulin like Growth Factors 1 (IGF-I) is a 7.79 kDa member of the Insulin-like Growth Factors with 71 amino acid residues. IGF-I is mainly expressed from liver, adipose tissue, Endometrial stromal cells, Leydig cells, and can be isolated from plasma. IGF-I mediating the protein anabolic and promoting effect of pituitary growth hormone. IGF-I also affects metabolism of glycogen, DNA synthesis and glucose uptake via binding to IGF-I receptor.
Form	Lyophilized
Bio-activity	Measure by its ability to induce MCF-7 cells proliferation. The ED50 for this effect is 0.9-3.1 ng/mL. The specific activity of recombinant human IGF-I is approximately $>1.2 \times 10^3$ IU/mg.
Molecular Mass	The protein has a calculated MW of 8.59 kDa. The protein migrates as 11 kDa under reducing condition (SDS-PAGE analysis).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	< 0.01 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens (human)]
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

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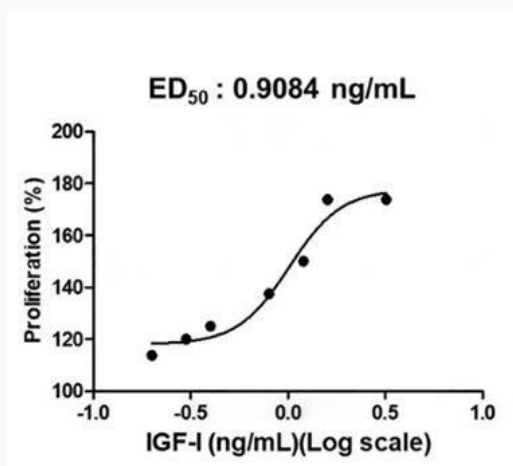
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Protein Refseq NP_000609

MIM 147440

UniProt ID P05019

Activity



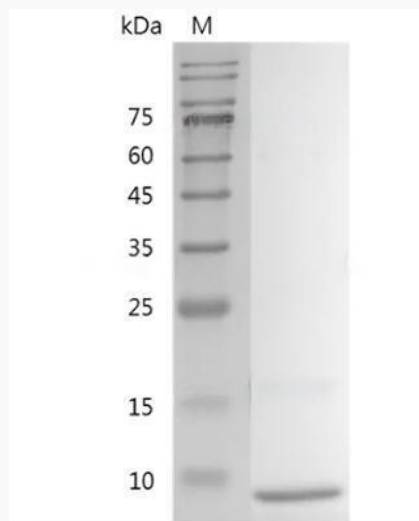
Human IGF-I, His Tag, E. coli (LDG088PHE) induced MCF-7 cell proliferation, with the ED₅₀ at 0.9084 ng/mL.

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**SDS-PAGE analysis
of recombinant
human IGF-I.**



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