

Active Recombinant Mouse Igf1 Protein (Gly49-Ala118), C-His tagged, Animal-free, Carrier-free

Cat. No. Igf1-43M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igf1 Protein (Gly49-Ala118) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Gly49-Ala118
Description	Insulin Like Growth Factors 1 (IGF-I) is a 7.81 kDa member of the Insulin-like Growth Factors with 71 amino acid residues. IGF-I is mainly expressed from liver, adipose tissue, cervi, endometrial stromal cells, leydig cells, and can be isolated from plasma. IGF-I is 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 < 2 ng/mL. The specific activity of recombinant mouse IGF-I is > 5 × 10 ⁵ IU/mg.
Molecular Mass	The protein has a calculated MW of 8.61 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% 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 8.0.
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 [Mus musculus (house mouse)]
Official Symbol	Igf1
Synonyms	IGF1; insulin-like growth factor 1; insulin-like growth factor I; somatomedin; Igf-1; Igf-I; C730016P09Rik;
Gene ID	16000
mRNA Refseq	NM_001111274

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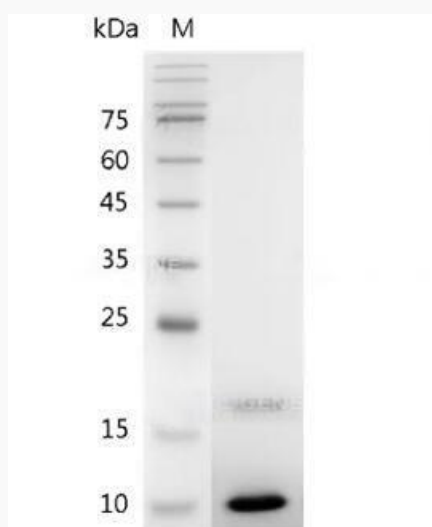
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Protein Refseq NP_001104744

UniProt ID P05017

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



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