

Active Recombinant Mouse Igf2 Protein (Ala25-Glu91), N-His tagged, Animal-free, Carrier-free

Cat. No. Igf2-44M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igf2 Protein (Ala25-Glu91) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Ala25-Glu91
Description	Mouse Insulin Like Growth Factors 2 (IGF-II) is a 7.34 kDa member of the Insulin-like Growth Factors with 67 amino acid residues. IGF-II is mainly expressed from early embryonic somatic tissues, liver, and epithelial cells lining the surface of the brain. IGF-II is mediating the embryonic development and placental growth, while also promoting tumor growth. IGF-II affects regulation of cell proliferation, growth, migration, differentiation and survival 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 < 6 ng/mL. The specific activity of recombinant mouse IGF-II is > 1.5×10^5 IU/mg.
Molecular Mass	The protein has a calculated MW of 8.20 kDa. The protein migrates about 11 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 2 weeks 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	Igf2 insulin-like growth factor 2 [Mus musculus (house mouse)]
Official Symbol	Igf2
Synonyms	IGF2; insulin-like growth factor 2; insulin-like growth factor II; multiplication-stimulating polypeptide; Mpr; M6pr; Peg2; Igf-2; Igf-II; AL033362;
Gene ID	16002
mRNA Refseq	NM_001122736

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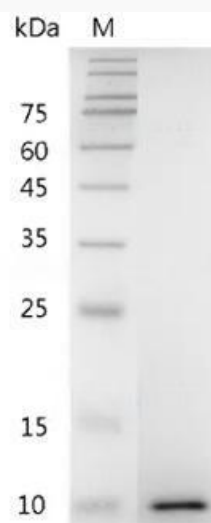
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Protein Refseq NP_001116208

UniProt ID P09535

SDS-PAGE analysis
of recombinant
mouse IGF-II.



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