Active Recombinant Human IGF2 Protein (Ala25-Glu91), N-His tagged, Animal-free, Carrier-free

Cat. No. IGF2-159H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF2 Protein (Ala25-Glu91) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala25-Glu91
Description	Insulin like Growth Factors 2 (IGF-II) is a 7.48 kDa member of the Insulin-like Growth Factors with 67 amino acid residues. IGF-II is mainly expressed from placenta, extravillous trophoblasts, leydig cells, syncytiotrophoblasts, cytotrophoblasts, peritubular cells. IGF-II regulating fetoplacental development and tissue differentiation. In adults, IGF-II signaling involves glucose metabolism in adipose tissue, skeletal muscle and liver. It also has important implications for metabolic disorders and cancer.
Form	Lyophilized
Bio-activity	Measure by its ability to induce MCF-7 cells proliferation. The ED50 for this effect is < 3 ng/mL. The specific activity of recombinant human IGF-II is > 3×10^5 IU/mg.
Molecular Mass	The protein has a calculated MW of 8.28 kDa. The protein migrates as 11 kDa under reducing condition (SDS-PAGE analysis).

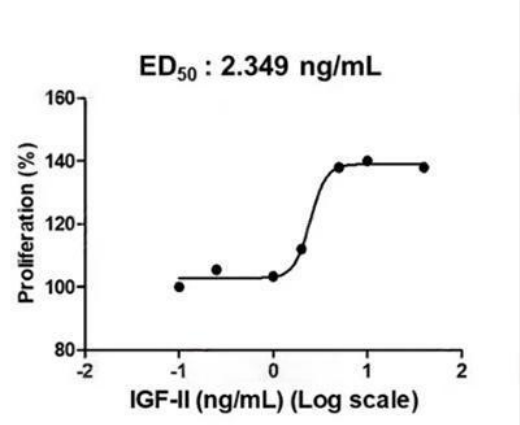
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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 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 H2O 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

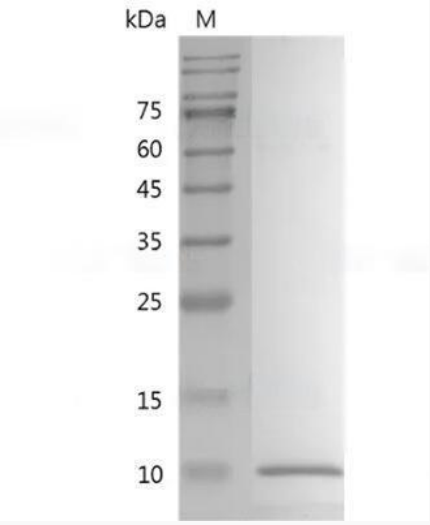
Gene Name	IGF2 insulin-like growth factor 2 (somatomedin A) [Homo sapiens (human)]
Official Symbol	IGF2
Synonyms	IGF2; insulin-like growth factor 2 (somatomedin A); C11orf43, chromosome 11 open reading frame 43; insulin-like growth factor II; FLJ44734; somatomedin-A; insulin-like growth factor type 2; IGF-II; PP9974; C11orf43; FLJ22066;
Gene ID	3481
mRNA Refseq	NM_000612

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Protein Refseq	NP_000603
MIM	147470
UniProt ID	P01344
Activity	 Human IGF-II, His Tag, E. coli (LDG089PHE) induced MCF-7 cell proliferation, with the ED50 at 2.349 ng/mL.

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SDS-PAGE analysis of recombinant human IGF-II.



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