

Active Recombinant Mouse Insulin-Like Growth Factor 2

Cat. No. Igf2-736M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igf2protein was expressed in E. coli. Ala25-Glu91.
Species	Mouse
Source	E.coli
ProteinLength	25-91 a.a.
Description	Igf2 is a secreted 8kDa polypeptide that belongs to the insulin family of peptide growth factors.It is part of a complex system of growth and metabolic-regulating proteins that is particularly important during development. It has been associated with nervous system proliferation and differentiation, myelination, adrenal cortical proliferation, and skeletal growth and differentiation.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
N-terminalSequence	Ala25
Molecular Weight	7.4 kDa
Activity	Measured in a serum-free cell proliferation assay using MCF7 human breast adenocarcinoma cells. Karey, K.P. et al. (1988) Cancer Research 48:4083. The ED50 for this effect is typically 2-10 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>97%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/ mLin sterile PBS
Storage	Use amannual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	Igf2 insulin-like growth factor2 [Mus musculus]
Official Symbol	Igf2
Synonyms	Igf2; insulin-likegrowth factor 2; Mpr; M6pr; Peg2; Igf-2; Igf-II; AL033362;multiplication-stimulating polypeptide
Gene ID	16002
mRNA Refseq	NM_001122736
Protein Refseq	NP_001116208
UniProt ID	P09535
Chromosome Location	7 F5; 7 69.09 cM
Pathway	Apoptosis; Diabetespathways; Disease; Endochondral Ossification; Hedgehog Signaling Pathway;PI3K/Akt/mTOR signaling pathway; Regulation of Insulin-like

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Growth Factor(IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs)

Function

growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding; protein serine/threonine kinase activator activity; receptor activator activity

PDB rendering based on 1igl.

