

Active Recombinant Mouse Igf2 Protein

Cat. No. Igf2-1224M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse insulin-like growth factor 2 (Igf2), transcript variant 2 (Ala25-Glu91) without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	25-91 a.a.
Description	This gene encodes a member of the insulin-like growth factor (IGF) family of proteins that promote growth and development during fetal and postnatal life. It is an imprinted gene that is expressed only from the paternal allele. The encoded protein undergoes proteolytic processing to generate a mature peptide. The transgenic overexpression of this gene in mice results in prenatal overgrowth, polyhydramnios, fetal and neonatal lethality, disproportionate organ overgrowth including tongue enlargement, and skeletal abnormalities. Mice lacking the encoded protein exhibit growth deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein.
Bio-activity	The ED50 is 10 - 30 ng/ml, corresponding to a specific activity of 0.3 - 1 x 10 ⁵ units/mg, determined by the dose dependent stimulation of MCF-7 cell proliferation.
Molecular Mass	7.4 kDa
Endotoxin	Less than 0.01 ng per µg protein as determined by the LAL method

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Purity	>98%, as determined by Coomassie stained SDS-PAGE.
Stability	Unopened vial can be stored between 2 centigrade and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 centigrade and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialled at >50 µg/mL in specified buffer
Storage Buffer	1 x PBS

GENE INFORMATION

Gene Name	Igf2 insulin-like growth factor 2 [Mus musculus (house mouse)]
Official Symbol	Igf2
Synonyms	Igf2; insulin-like growth factor 2; Mpr; M6pr; Peg2; Igf-2; Igf-II; AL033362; insulin-like growth factor II; multiplication-stimulating polypeptide
Gene ID	16002
mRNA Refseq	NM_001122736
Protein Refseq	NP_001116208
UniProt ID	P09535

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