

Product datasheet for **TP723848**

Igf2 (NM_001122736) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse insulin-like growth factor 2 (Igf2), transcript variant 2
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Mouse IGF-II, the region of Ala25-Glu91, from gene Accession# NM_001122736.1
Tag:	Tag Free
Predicted MW:	7.4 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS
Bioactivity:	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.
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_001116208
Locus ID:	16002
UniProt ID:	P09535
RefSeq Size:	3701
Cytogenetics:	7 87.99 cM
RefSeq ORF:	540
Synonyms:	AL033362; Igf; Igf-; Igf-2; Igf-II; M; M6; M6pr; Mpr; Peg; Peg2



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Summary:

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. [provided by RefSeq, Oct 2015]