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Product datasheet for TP723869

Igf1 (NM_010512) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse insulin-like growth factor 1 (Igf1), transcript variant 1
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Mouse IGF-I, the region of M - Gly49-Ala118 from gene Accession# NM_010512
Tag:	Tag Free
Predicted MW:	7.8 kDa
Concentration:	lot specific
Purity:	>95%, as determined by Coomassie stained SDS-PAGE
Buffer:	1 x PBS
Bioactivity:	The ED50 is 3-15 ng/ml, corresponding to a specific activity of 0.6-3.3 x 105 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_034642
Locus ID:	16000
UniProt ID:	P05017
RefSeq Size:	7121
Cytogenetics:	10 43.7 cM
RefSeq ORF:	477
Synonyms:	C730016P09Rik; Igf; Igf-; Igf-1; Igf-I

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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. This gene is predominantly expressed in the liver and the encoded protein undergoes proteolytic processing to generate a disulfide-linked mature polypeptide. Transgenic disruption of this gene in mice results in reduced postnatal survival and severe growth retardation. Mice lacking the encoded protein exhibit generalized organ hypoplasia including underdevelopment of the central nervous system and developmental defects in bone, muscle and reproductive systems. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Product images: