

Product datasheet for **TP723177**

Igf1 (NM_001111274) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse insulin-like growth factor 1 (Igf1), transcript variant 3.
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPTKAA
Tag:	Tag Free
Predicted MW:	7.6 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	The ED50 was determined a cell proliferation assay using FDC-P1 cells is <2.0 ng/ml, corresponding to a specific activity of >5 x 10 ⁵ units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<u>NP_001104744</u>
Locus ID:	16000
UniProt ID:	<u>Q8CAR0</u>
RefSeq Size:	7039
Cytogenetics:	10 43.7 cM
RefSeq ORF:	429
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:
