

Product datasheet for **TP728328M**

Recombinant IGF-II (Insulin-like growth factor-II), Mouse

Product data:

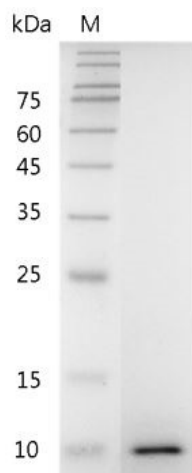
Product Type:	Recombinant Proteins
Description:	Recombinant IGF-II (Insulin-like growth factor-II), Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	AYGPGETLCGGELVDTLQFVCSDRGFYFSRPSSRANRRSRGIVEECCFRSCDLALLETYCATPAKSE with polyhistidine tag at the N-terminus.
Tag:	His Tag (N-term)
Predicted MW:	The protein has a calculated MW of 8.20 kDa. The protein migrates about 11 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce MCF-7 cells proliferation. The ED ₅₀ for this effect is <6 ng/mL. The specific activity of recombinant mouse IGF-II is > 1.5 x 10 ⁵ IU/mg.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P09535
Synonyms:	AL033362, Igf-2, M6pr, Mpr, Peg, Peg2



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Summary:

Mouse Insulin Like Growth Factors 2 (IGF-II) is a 7.34 kDa member of the Insulin-like Growth Factors with 67 amino acid residues. IGF-II is mainly expressed from early embryonic somatic tissues, liver, and epithelial cells lining the surface of the brain. IGF-II is mediating the embryonic development and placental growth, while also promoting tumor growth. IGF-II affects regulation of cell proliferation, growth, migration, differentiation and survival via binding to IGF-I receptor.

Product images:

SDS- PAGE analysis of recombinant mouse IGF-II