

Product datasheet for **TP727604**

Igf1 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Insulin-like Growth Factor I/ LR3-IGF1 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Gly49-Ala118
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mMNaAC,ph4.5.
Note:	Recombinant Mouse Insulin-like Growth Factor I is produced by our E.coli expression system and the target gene encoding Gly49-Ala118 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	16000
UniProt ID:	P05017
Summary:	Insulin-like growth factor I (IGF1) belongs to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mouse IGF-I is synthesized as two precursor isoforms with alternate N- and C-terminal propeptides. These isoforms are differentially expressed by various tissues. Mature mouse IGF-I shares 94% and 99% aa sequence identity with human and rat IGF-I, respectively, and exhibits cross-species activity. It shares 60% aa sequence identity with mature mouse IGF-II. IGF-I induces the proliferation, migration, and differentiation of a wide variety of cell types during development and postnatally. It plays an important role in muscle regeneration and tumor progression. IGF-I binds IGF-I R, IGF-II R, and the insulin receptor. IGF-I association with IGF binding proteins increases its plasma half-life and modulates its interactions with receptors.



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