


Mouse IGF1 protein

Cat #: PRP1154

Size: 10 µg/50 µg/100 µg/1 mg

Product Information

	Product Name: Mouse IGF1 protein		
REF	Catalog Number: PRP1154	LOT	Lot Number: Refer to product label
	Purity: >98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Insulin-like growth factor I(IGF1) belongs to a family of insulin-like growth factors with the same structure as proinsulin. Mature mouse IGF-I has 94% and 99% amino acid sequence identity with human and rat IGF-I, respectively, and shows cross-species activity. It has 60% amino acid sequence identity with mature mouse IGF-II. IGF-I induces proliferation, migration and differentiation of many cell types during development and after birth. It plays an important role in muscle regeneration and tumor progression. IGF-1 binds to IGF-1 receptor, IGF-II-1 receptor and insulin receptor. The binding of IGF-I to IGF-binding protein increases its plasma half-life and regulates its interaction with receptor.

Sequence: Amino acid sequence derived from Mouse IGF1 (P05017) (Gly49-Ala118) was expressed with 6xHis tag at N-terminus.

Protein length: The recombinant Mouse IGF1 consists of 70 amino acids and predicts a molecular mass of 7.7 kDa.

Biological Activity: Measured by its ability to induce proliferation in MCF-7 cells. The ED₅₀ for this effect is 0.6385 ng/mL.

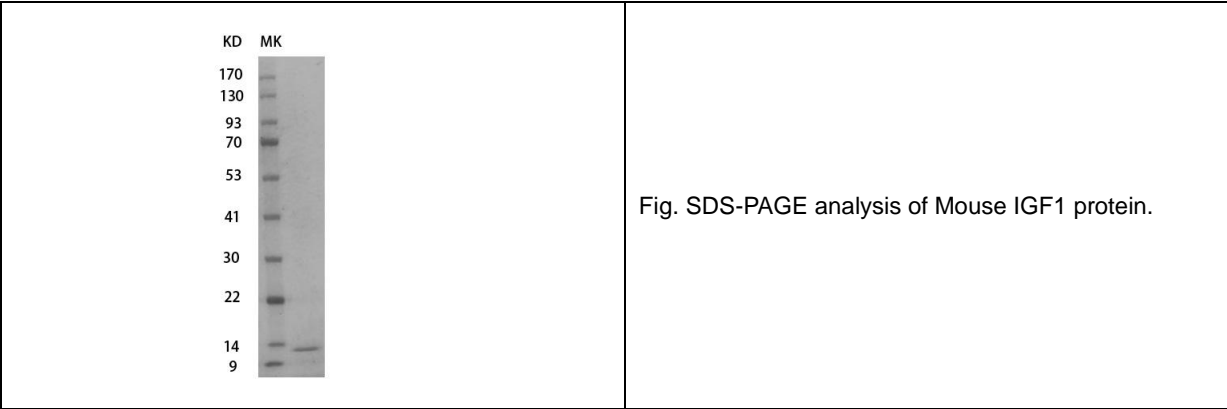
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20 mM Tris, 150 mM NaCl, pH 8.0.

Storage Instructions: Lyophilized recombinant Mouse IGF1 protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Mouse IGF1 protein using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous

solutions.



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