

Recombinant Active Mouse IGF1 Protein, His-tagged(C-ter)

Cat. No. Igf1-128M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Active Mouse IGF1 Protein with His tag (C-ter) was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]
Form	Powder
Bio-activity	Determined by its ability to induce MCF-7 cells proliferation. The ED50 for this effect is < 2 ng/mL. The specific activity of recombinant mouse IGF-I is > 5 x 10 ⁵ IU/mg.
AA Sequence	MGPETLCGAELVDALQFVCGPRGFYFNKPTGYGSSIRRAPQTGIVDECCFRSCDLR RLEMYCAPLKPTKAA
Endotoxin	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)

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Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	PBS (pH 8.0)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name	Igf1 insulin-like growth factor 1 [Mus musculus]
Official Symbol	Igf1
Synonyms	IGF1; insulin-like growth factor 1; insulin-like growth factor I; somatomedin; Igf-1; Igf-I; C730016P09Rik;
Gene ID	16000
mRNA Refseq	NM_001111274
Protein Refseq	NP_001104744

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SDS-PAGE



Mouse IGF1
recombinant protein

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