

Insulin Like Growth Factor-1 Active Protein | mIGF1 active protein

Recombinant Mouse Insulin Like Growth Factor-1

CATALOG #
AAA38121

HOST
E Coli

PRODUCT SYNONYMS

Insulin Like Growth Factor-1; Recombinant Mouse Insulin Like Growth Factor-1; IGF1 Mouse; Insulin-Like Growth Factor 1 Mouse Recombinant; Somatomedin C; IGF-I; IGFA; IGF1; mIGF1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized with no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeGly-Pro -Glu-Thr-L eu
Sequence Length	153
Solubility	It is recommended to reconstitute the lyophilized IGF1 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods1. UV spectroscopy at 280 nm using the absorbency value of 0.47 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IGF-I as a Reference Standard.
Biological Activity	The ED50, calculated by the dose-dependant proliferation of murine BALBC 3T3 cells (measured by 3H-thymidine uptake) is < 1.0 ng/ml, corresponding to a specific activity of 1MU/mg.
Preparation and Storage	Lyophilized IGF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IGF-1 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mIGF1 active protein	Description: Insulin-Like Growth Factor I mouse Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7600 Dalton. IGF-I is purified by proprietary chromatographic techniques. Introduction: The somatomedins, or insulin-like growth factors (IGFs), comprise a family of peptides that play important roles in mammalian growth and development. IGF1 mediates many of the growth-promoting effects of growth hormone (GH; MIM 139250). Early studies showed that growth hormone did not directly stimulate the incorporation of sulfate into cartilage, but rather acted through a serum factor, termed 'sulfation factor,' which later became known as 'somatomedin' (Daughaday et al., 1972). Three main somatomedins have been characterized: somatomedin C (IGF1), somatomedin A (IGF2; MIM 147470), and somatomedin B (MIM 193190) (Rotwein, 1986; Rosenfeld, 2003).
Product Categories/Family for mIGF1 active protein	Cytokines and Growth Factors; Growth Factors; Insulin-Like Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	163659894
NCBI GeneID	16000
NCBI Accession #	NP_001104745.1
NCBI GenBank Nucleotide #	NM_001111275.1
UniProt Accession #	P05017; P05018; Q6LDP4; Q8C4U6
Molecular Weight	17,623 Da
NCBI Official Full Name	insulin-like growth factor I isoform 4 preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 1
NCBI Official Symbol	Igf1
NCBI Official Synonym Symbols	Igf-1; Igf-I; C730016P09Rik
NCBI Protein Information	insulin-like growth factor I; somatomedin
UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	Igf1
UniProt Synonym Gene Names	Igf-1; IGF-I
UniProt Entry Name	IGF1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-migf1-active-protein/insulin-like-growth-factor-1/38121>