

Insulin Like Growth Factor-1 Active Protein | IGF1 active protein

Recombinant Human Insulin Like Growth Factor-1

CATALOG #
AAA38111

HOST
E Coli

PRODUCT SYNONYMS

Insulin Like Growth Factor-1; Recombinant Human Insulin Like Growth Factor-1; IGF1 Human; Insulin-Like Growth Factor 1 Human Recombinant; Somatomedin C; IGF-I; IGF1; IGF1; IGF-IA; Mechano growth factor; MGF; IGF1 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 without any additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA
Sequence Length	153
Solubility	It is recommended to reconstitute the lyophilized IGF-1 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 methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.502 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 IGF1 as a Reference Standard.
Biological Activity	The activity as determined by the dose-dependent proliferation of mouse FDC-P1 is less than 1.0 ng/ml, corresponding to a specific activity of 1x106 units/mg.
Preparation and Storage	Lyophilized Insulin-Like Growth Factor-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IGF1 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 IGF1 active protein	Description: Insulin-Like Growth Factor-I Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7.7kDa. 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 IGF1 active protein	Cytokines and Growth Factors; Growth Factors; Insulin-Like Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	11024682
NCBI GeneID	3479
NCBI Accession #	NP_000609.1
NCBI GenBank Nucleotide #	NM_000618.3
UniProt Accession #	P01343; Q14620; B2RWM7; E9PD02; P05019
Molecular Weight	17,762 Da
NCBI Official Full Name	insulin-like growth factor I isoform 4 preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 1 (somatomedin C)
NCBI Official Symbol	IGF1
NCBI Official Synonym Symbols	IGFI; IGF-I; IGF1A
NCBI Protein Information	insulin-like growth factor I; IGF-IA; IGF-IB; MGF; insulin-like growth factor IA; insulin-like growth factor IB; mechano growth factor; somatomedin-C
UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	IGF1
UniProt Synonym Gene Names	IBP1; IGF-I; MGF
UniProt Entry Name	IGF1_HUMAN

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://stage.aaabiotech.com/e-coli-igf1-active-protein/insulin-like-growth-factor-1/38111>