

IGF1 active protein

IGF1 protein

CATALOG # AAA75399	HOST Human
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PRODUCT SYNONYMS

IGF1; IGF1 protein; IGF 1 protein; IGF 1; IGF-1 protein; Insulin-like Growth Factor-1 protein; IGF-1A protein; Somatamedin C protein; IGF-1; IGF1 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 98% pure
Form/Format	Lyophilized with no additives. DO NOT VORTEX. Reconstitute in laboratory grade water to a concentration of 0.1 - 1.0 mg/ml.
Sequence	Region of IGF1 protein corresponds to amino acids GPETLC GAELVDALQF VCGDRGFYFN KPTGYGSSSR RAPQTGIVDE CCFRSCDLRR LEMYCAPLKP AKSA.
Sequence Length	21
Protein Type	Recombinant
Biological Significance	The IGFs are mitogenic polypeptide growth factors that stimulate the proliferation and survival of various cell types including muscle, bone, and cartilage tissue in vitro. IGFs are predominantly produced by the liver, although a variety of tissues produce the IGFs at distinctive times. The IGFs belong to the Insulin gene family, which also contains insulin and relaxin. The IGFs are similar by structure and function to insulin, but have a much higher growth-promoting activity than insulin. IGF-II expression is influenced by placenta lactogen, while IGF-I expression is regulated by growth hormone. Both IGF-I and IGF-II signal through the tyrosine kinase type I receptor (IGF-IR), but, IGF-II can also signal through the IGF-II/Mannose-6-phosphate receptor.
Bioactivity	The ED50 was determined by a cell proliferation assay using FDC-P1 cells is 2.0 ng/ml, corresponding to a specific activity of 5 x 10 ⁵ units/mg.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IGF1 active protein	Purified recombinant Human IGF1 protein
Product Categories/Family for IGF1 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	246163
NCBI GeneID	3479
UniProt Accession #	Q6LD41 ; P05019

Molecular Weight	2,410 Da
NCBI Official Full Name	insulin-like growth factor-I, partial
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
UniProt Protein Name	Insulin-like growth factor-I
UniProt Gene Name	IGF1
UniProt Entry Name	Q6LD41_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/human-active-protein/igf1/75399>