

IGF-1 active protein

IGF-1, 49-118 aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48458	HOST E Coli	APPLICATIONS SDS-Page
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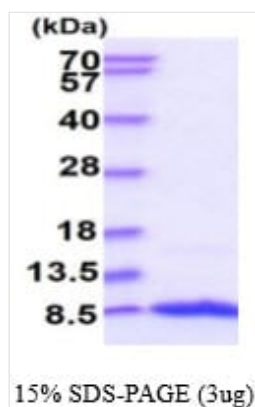
PRODUCT SYNONYMS

IGF-1; 49-118 aa; Human; E Coli (Bioactivity Validated); Insulin-like growth factor-1; IGF-1A; Somatomedin-C; MGF; IBP1; IGF1; Insulin-like growth factor-1 IGF 1A; IGF 1B; IGF1; IGFI; IGFI A; Insulin like growth factor 1; Insulin like growth factor 1 (somatomedin C); Insulin like growth factor 1A; Insulin like growth factor 1B; Mechano growth factor; Somatomedin C; ; IGF-1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In phosphate-buffered saline (PBS), pH 7.4
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGPETLCGAE LVDALQFVCG DRGFYFNKPT GYGSSRRAP QTGIVDECCF RSCDLRRLEM YCAPLKPAKS A
Sequence Length	153
Applicable Applications for IGF-1 active protein	SDS-PAGE
Antigen Species	Human
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	The ED50 for this effect is < 5ng/ml. Measured in a cell Proliferation assay using MCF7 cell.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IGF-1 active protein	The Insulin-like growth factor-1 (IGF-1) is mitogenic polypeptide growth factors that stimulate the proliferation and survival of various cell types including muscle, bone, and cartilage tissue in vitro. IGF-1 is predominantly produced by the liver, although a variety of tissues produce the IGFs at distinctive times. The IGF-1 belongs to the insulin gene family, which also contains insulin and relaxin. The IGF-1 is similar by structure and function to insulin, but have a much higher growth-promoting activity than insulin. This recombinant human IGF-I is globular protein containing 70 amino acids, and 3 intra-molecular disulfide bonds. Recombinant IGF-1 was expressed in E Coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Product Categories/Family for IGF-1 active protein	Hormones & Cytokines
References	Rinderknecht E., et al (1978) J Biol.Chem, 253: 2769. ; Zumstein P., et al (1987) J Biol. Chem, 262: 11252.; Rabinovsky ED (2004) Neurol Res, 26: 204-210;

NCBI AND UNIPROT INFORMATION

NCBI GI #	11024682
NCBI GeneID	3479
NCBI Accession #	NP_000609
NCBI GenBank Nucleotide #	NM_000618.4
UniProt Accession #	P05019; P01343; Q14620; B2RWM7; E9PD02
Molecular Weight	7.7kDa (71aa), confirmed by MALDI-TOF.
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	MGF; IGFI; IGF-I
NCBI Protein Information	insulin-like growth factor I
UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	IGF1
UniProt Synonym Gene Names	IBP1; IGF-I; MGF

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-active-protein/igf-1/48458>