

LR3 Insulin-Like Growth Factor I/LR3-IGF-1 Recombinant Protein | LR3-IGF-1 recombinant protein

Recombinant Human LR3 Insulin-Like Growth Factor I/LR3-IGF-1 Protein (MG)

CATALOG # AAA174023	HOST E Coli
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PRODUCT SYNONYMS

LR3 Insulin-Like Growth Factor I/LR3-IGF-1; Recombinant Human LR3 Insulin-Like Growth Factor I/LR3-IGF-1 Protein (MG); Insulin-Like Growth Factor I; IGF-I; Mechano Growth Factor; MGF; Somatomedin-C; IGF1; IBP1; LR3-IGF-1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 µm filtered solution of 300mM HAc-NaAc, pH 6.5.
Sequence Positions	Gly49-Ala118 (Glu51Arg)
Species	Human
Endotoxin	<1.0 EU per µg as determined by LAL test.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

ADDITIONAL INFORMATION

Related Product Information for LR3-IGF-1 recombinant protein	Insulin-like growth factor I (IGF1) belongs to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGFs are generated by proteolytic processing of inactive precursor proteins, which contains the N- and C-terminal propeptide regions. Mature human IGF-I consisting of 70 amino acids has 94% identity with mouse IGF-I and exhibits cross-species activity. IGF-1 binds IGF-IR, IGF-IIR, and the insulin receptor and plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF-1 expression is regulated by growth hormone. R3 IGF-1 is an 83 amino acid analog of IGF-1 comprising the complete human IGF-1 sequence with the substitution of an Arg (R) for the Glu(E) at position three, hence R3, and a 13 amino acid extension peptide at the N terminus. R3 IGF-1 has been produced with the purpose of increasing biological activity. R3 IGF-1 is significantly more potent than human IGF-I in vitro.
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NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular Mass: 9.1 kDa Actual Protein Molecular Mass: 11 kDa
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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/lr3-insulin-like-growth-factor-i/lr3-igf-1-recombinant-protein-e-coli/174023>