

Recombinant Human LR3 IGF-1 Protein

Cat. No. 110513

DESCRIPTION

Expression system	<i>E. coli</i>
Amino acid sequence	Met; Phe27-Asn38, Accession # P01244, Ala37Val; Gly49-Ala118, Accession # P05019, Glu51Arg MFPAMPLSSL FVNGPRTLCLG AELVDALQFV CGDRGFYFNK PTGYGSSSR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA
Molecular mass	Recombinant Human LR3 IGF-1 Protein, a monomer containing 83 amino acid residues, has a predicted molecular mass of approximately 9.1 kDa.

SPECIFICATIONS

Purity	> 98 % by SDS-PAGE analyses. > 95 % by RP-HPLC analyses.
Endotoxin	Less than 0.01 EU/μg of rHuLR3 IGF-1 as determined by LAL test.
Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by the stimulation of protein synthesis using rat L6 myoblasts is less than 10 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^5$ U/mg.
Formulation	Lyophilized from a 0.22 μm filtered solution of in PB. See CoA for details.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING & STORAGE

Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Please use a manual defrost freezer and avoid repeated freeze-thaw cycles. ● Lyophilized protein should be stored at $\leq -20^\circ\text{C}$, stable for 12 months after receipt. ● Reconstituted protein solution can be stored at $2-8^\circ\text{C}$ for 1 month. ● Aliquots of reconstituted samples are stable at $\leq -20^\circ\text{C}$ for 3 months.

BACKGROUND

Human LR3 IGF-1 (Long R3 Insulin-like Growth Factor 1) is a modified form of conventional IGF-1. It is a single-chain polypeptide with high biological activity, structurally homologous to proinsulin.

It binds to specific cell surface receptors, activating downstream signaling pathways to regulate cell proliferation, inhibit apoptosis, and maintain metabolic balance.

It plays a key role in cell growth, tissue repair and metabolic regulation, widely used in biological research. Its stable structure ensures reliable biological function, providing support for related research on cell growth and metabolism.

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For research, laboratory or further evaluation purposes. NOT for Human Use.

Tel: +86 21 3115 5126

E-mail: order@protein-x.com

Website: <https://www.protein-x.com>

Addr: 4th Flr, Bldg 3, No. 651 Lianheng Rd, Pujiang Town, Minhang District, Shanghai, 201112, China