rhIGF-1 LR3

Recombinant Human Insulin-like Growth Factor-1 LR3

Lyophilized powder

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Introduction

Human Insulin-like growth factor-1 (hIGF-1) is a hormone similar in molecular structure to insulin. It primarily functions through binding to its specific receptor, the insulin-like growth factor 1 receptor (IGF1R). IGF-1 is one of the most potent natural activators of the AKT signaling pathway, which stimulates cell growth and proliferation, and inhibits cell apoptosis. rhIGF-1 LR3 (rhIGF-1 Long Arg3) is an 83 amino acid analog of IGF-1 comprising the complete human IGF-1 sequence with the substitution of an Arg for the Glu at position 3 (hence R3), and a 13 amino acid extension peptide at the N-terminus.

The rhIGF-1 LR3, purified by chromatography from E.coli, then lyophilized with Mannitol, has much higher stability and biological activity. The manufacture capability at hundreds of grams scales can meet your large bioprocessing needs.

Specification

- **Source:** E.coli (*Escherichia coli*)
- **Appearance:** White or off-white loose body
- **Molecular weight:** 9.1 kDa
- **Purity:** ≥90.0% by SDS-PAGE
- **Activity:** ≥ 1.0×10^6 IU/mg by a cell proliferation assay using Bal B/C 3T3 cell.
- **Endotoxin:** <5.0 EU/mg

Preparation and Storage

- **Reconstitution:** Recommend to reconstitute rhIGF-1 LR3 at 100-200μg/ml concentration in sterile water. After the lyophilized powder is completely reconstituted,filter it with a 0.22 μm filter. Further dilutions can be made inother aqueous buffer.
- **Storage:** Stored at temperature -20°C for at least 36 months.

Please avoid repeated freeze-thaw cycles.

Related Products

Cat. No.	Product Name
HYC002C01	OsrHSA Premium, powder
HYC002C02	OsrHSA Premium, liquid
HYC002M01	OsrHSA Advanced, powder
HYC002R01	OsrHSA Precise, powder
HYC028M01	OsrHSA, Fatty acid free, liquid
HYC021M01	OsrhFN, powder
HYC044M01	OsrhTF, powder
HYC005M01	OsrhbFGF, powder
HYC026M01	OsrhVEGF, powder
HYC027M01	OsrhKGF, powder
HYC020M01	rhEGF, powder
HYC006M01	OsrhAAT, powder
HYC004M01	OsrhLF, powder
HYC042R01	OsrhLYZ, powder
HYC052R01	OsrCSA, liquid
HYC053R01	OsrFSA, liquid

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