rhIGF-1 LR3

Recombinant Human Insulin-like Growth Factor-1 LR3

Lyophilized powder

Catalog No. HYC007M01

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: 8.3 kDa
- Purity: ≥90.0% by SDS-PAGE
- Activity: ≥ 1.0×10⁶ 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. Further dilutions can be made in other 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 OsrhAAT, powder HYC006M01 OsrhLF, powder HYC004M01 HYC042R01 OsrhLYZ, powder HYC052R01 OsrCSA, liquid HYC053R01 OsrFSA, liquid

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peated freeze-thaw

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