



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Long R3 Insulin Like Growth Factor-1, human recombinant (rHuLong-R3-IGF-1)

Catalog No: 97534
Lot No: XXXXX
Source: *E. coli*
Synonyms: R3 IGF1, R3 IGF-1, R3IGF1, R3IGF-1, LONG IGF1, LONG IGF-1, LONG R3 IGF1, LONG R3IGF1, LONG R3 IGF-1, LONG R3IGF-1

Background

IGF-1 (Insulin-like growth factor-1) is a major hormonal mediator of statural growth. Under regular circumstances, GH (growth hormone) binds to its receptor in the liver, and other tissues, and stimulates the synthesis/secretion of IGF-1. In target tissues, the Type 1 IGF receptor, that is homologous to the insulin receptor, is activated by IGF-1, leading to intracellular signaling which stimulates multiple processes leading to statural growth. IGF-1 metabolic actions are partly directed at stimulating the uptake of glucose, fatty acids, and amino acids so that metabolism supports growing tissues.

Description

LR3 is a long-term analog of human IGF-1, specifically designed and manufactured for mammalian cell culture to support large-scale manufacturing of recombinant biopharmaceuticals. Human recombinant LR3 Insulin Like Growth Factor-1 produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 83 amino acids and having a molecular mass of 9.1 kDa.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.2.

Solubility

It is recommended to reconstitute the lyophilized LR3 IGF1 in sterile 18 MΩ-cm H₂O at a concentration of 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized LR3 IGF1, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution the LR3 IGF1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by SDS-PAGE.

Amino Acid Sequence

MF^hPAMPLSSL FVNGPRTL^hCG AELVDALQFV CGDRGFYFNK PTGYGSSSR^h APQTGIVDECC FRSCDLRRLE MYCAPLKPAK SA



Activity

The ED50 as determined by the stimulation of protein synthesis in L6 myoblasts is less than 10 ng/ml, corresponding to a specific activity of 100,000 units/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.