



Recombinant Human Long R3 Insulin-like Growth Factor-1 (rhLR3IGF-1)

Catalog Number: 105-03

Description

Insulin-like growth factor-1 (IGF-1) is the principal hormonal mediator of statural growth. Under normal circumstances, growth hormone (GH) 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, which is homologous to the insulin receptor, is activated by IGF-1, leading to intracellular signaling which stimulates multiple processes leading to statural growth. The 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.

Specifications

Synonyms:	R3IGF1, LONG IGF1
AA Sequence:	MFPAMPLSSL FVNGPRTL CG AELVDALQFV CGDRGFYFNK PTGYGSSSR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA
Source:	<i>Pichia pastoris</i>
Molecular Weight:	Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 83 amino acids.
Purity:	> 95% by SDS-PAGE

Quality Control

Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)
Sterility	No microorganisms
Physical Appearance:	Light yellow to white powder

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in PBS, pH 7.4 with 2% Dextran as protectant.

Rev. 0

Reconstitution

Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8 °C for up to one week. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.

Usage

rhLR3IGF-1 is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.