

## Active Recombinant Human IGF-1 LR3 Protein

Cat. No. IGF1-23H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	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. Recombinant Human 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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>AASequence</b>	MFPAMPLSSLFVNGPRTLCGAELVDALQFVCGDRGFYFNKPTGYGSSRRAPQTGI VDECCFRSCDLRRLEMYCAPLKPAKSA.
<b>Molecular Mass</b>	9.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Bio-activity</b>	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.
<b>Purity</b>	Greater than 98.0% as determined by SDS-PAGE.
<b>Note</b>	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Storage</b>	Lyophilized LR3 IGF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution the LR3 IGF1 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20mM PB, pH 7.2.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized LR3 IGF1 in sterile 18M-cm H2O at a concentration of 100 µg/mL, which can then be further diluted to other aqueous solutions.
<b>Shipping</b>	Shipped at Room temperature.

## GENE INFORMATION

<b>Gene Name</b>	IGF1 insulin-like growth factor 1 (somatomedin C) [ Homo sapiens (human) ]
<b>Official Symbol</b>	IGF1
<b>Synonyms</b>	IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGF1; IGF-I;

**Gene ID**

3479

**mRNA Refseq**

NM\_000618

**Protein Refseq**


NP\_000609

**MIM**

147440

**UniProt ID**

P05019

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA