

Active Recombinant Human IGF1 protein

Cat. No. IGF1-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 was expressed in E.coli.
Species	Human
Source	E.coli
Description	Human insulin-like growth factor-1, also known as IGF-1, has a molecular weight of 7.6 kD. It is hormone similar in molecular structure to insulin. It primarily functions through binding to its specific receptor, the insulin-like growth factor 1 receptor (IGF1R), to initiate intracellular signaling. 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. Thus, IGF-1 is widely deemed as a powerful substitute of insulin. The product is expressed as fusion protein with HSA, which increase its solubility and lifetime. The product presents a molecular weight about 74.5 kD, and has a much higher stability compared to IGF-1.
Form	Lyophilized Powder
Bio-activity	$\geq 1.0 \times 10^6$ IU/mg
Molecular Mass	9.1 kDa
Endotoxin	<5 EU/mg
Purity	$\geq 90\%$ SDS-PAGE

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Storage	Stored at -20°C.
Reconstitution	It is recommended to reconstitute rhIGF-1 LR3 lyophilisate with sterile water to a concentration of 100-200 ug/ml. Further dilution can be made with other solvents. The dissolved rhIGF-1 LR3 can be stored at 4°C for 2-7 days and should be used up as soon as possible. If it is not to be used in the short term, it should be stored at -20°C. After opening, please use it as soon as possible to avoid contamination.
GENE INFORMATION	
Gene Name	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens]
Official Symbol	IGF1
Synonyms	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 growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGFI; IGF-I;
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440
UniProt ID	P05019