

Recombinant Rat IGF1 Protein

Cat. No. IGF1-121R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IGF1 Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Insulin-like growth factor I (IGF-I) is a growth factor that is produced by the liver. IGF-1 production is stimulated by growth hormone (GH). IGF-I binds the insulin-like growth factor 1 receptor (IGF1R) and the insulin receptor to stimulate systemic body growth. IGF-I is one of the most potent activators of the AKT signaling pathway, which stimulates cell proliferation and inhibits programmed cell death.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Monomer, 7.7 kDa (70 aa)
AA Sequence	GPETLCGAELVDALQFVCGPRGFYFNKPTGYGSSIRRAPQTGIVDECCFRSCDLRR LEMYCAPLKPTKSA
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.

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	3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	Igf1 insulin-like growth factor 1 [Rattus norvegicus (Norway rat)]
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1; insulin-like growth factor I; IGF-I; somatomedin;
Gene ID	24482
mRNA Refseq	NM_001082477
Protein Refseq	NP_001075946
UniProt ID	P08025

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