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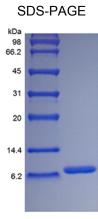
IGF1 Recombinant Human LR3 Insulin-like Growth Factor 1

Catalog No.	LRM001 LRM005 LRM010 LRM020	Quantity:	1.0 mg 5.0mg 10 mg 20 mg
Alternate Names:	Lr3 IGF-1, LR3 IGF, IGF LR3, LArg3 IGF-1		
Description:	IGF-1 belongs to the insulin gene family and is a mitogenic polypeptide growth factor that stimulates the proliferation and survival of various cell types, including muscle, bone, and cartilage tissue. LR3 IGF-1 is a long-term acting analog of human IGF-1 specifically designed and manufactured for mammalian cell culture to support large-scale manufacturing of recombinant biopharmaceuticals. It differs from native IGF-1 in that it possesses an arginine instead of a glutamic acid at the third position in its amino acid sequence ("arginine 3"), and also has an additional 13 amino acids at N-terminus (MFPAMPLLSLFVN) ("long"), for a total of 83 amino acids (relative to the 70 of IGF-1).		
Gene ID:	Analog of 3479		
Source:	E. coli		
Molecular Weight:	~9.1 kDa		
Formulation:	Lyophilized from sterile-filtered 20 mM phosphate buffer, pH 7.2.		
Purity:	>98% by SDS-PAGE analysis, >90% by RP-HPLC		
Endotoxin Level:	<0.01 EU/µg		
Biological Activity:	$ED_{50} \sim 0.3-1.5$ ng/ml, determined in a serum-free cell proliferation assay using human MCF-7 cells $ED_{50} < 10$ ng/ml, determined by the stimulation of protein synthesis in rat L6 myoblasts.		
Specific Activity:	$> 6.7 \times 105$ IU/mg, by serum-free cell proliferation assay using human MCF-7 cells >1.0 x 10 ⁵ IU/mg, by the stimulation of protein synthesis in rat L6 myoblasts		
Amino Acid Sequence:	MFPAMPLSSL FVNGPRTLCG AELVDALQFV CGDRGFYFNK PTGYGSSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:		r sterile conditions, produc in working aliquots at -20 °	ear when stored at -20 °C to -80 ° t is stable for one month at 2-8 °C, C to -80 °C.



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