

Recombinant Human LR3-IGF-1

Catalog #	EPT077	
Expression Host	E.coli	
DESCRIPTION	Recombinant Human LR3 Insulin-Like Growth Factor-I is produced by our E.coli expression system and the	
	target gene encoding Gly49-Ala118 is expressed.	
Accession	P05019	
Synonyms	Insulin-Like Growth Factor I; IGF-I; Mechano Growth	
	Factor; MGF; Somatomedin-C; IGF1; IBP1	
Mol Mass	9.1 KDa	
AP Mol Mass	11 KDa, reducing conditions	
Purity	Greater than 95% as determined by reducing	
	SDS-PAGE.	
Endotoxin	Less than 0.05 ng/ μ g (0.5 EU/ μ g) as determined by LAL	
	test.	
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM	
	NaAc-HAc, 4% Mannitol, pH 4.5.	
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by	
	vortex or pipetting.	



+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com 23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C



It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in 50mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

STORAGELyophilized protein should be stored at < -20 ° C,
though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C
for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

www.elkbiotech.com

BACKGROUND Insulin-like growth factor I (IGF1) belongs to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGFs are generated by proteolytic processing of inactive precursor proteins, which contains the N- and C-terminal propeptide regions. Mature human IGF-I consisting of 70 amino acids has 94% identity with mouse IGF-I and exhibits cross-species activity. IGF-1 binds IGF-IR,



+86-27-59760950

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

ELKbio@ELKbiotech.com



IGF-IIR, and the insulin receptor and plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF-1 expression is regulated by growth hormone. R3 IGF-1 is an 83 amino acid analog of IGF-1 comprising the complete human IGF-1 sequence with the substitution of an Arg (R) for the Glu(E) at position three, hence R3, and a 13 amino acid extension peptide at the N terminus. R3 IGF-1 has been produced with the purpose of increasing biological activity. R3 IGF-1 is significantly more potent than human IGF-I in vitro.

kDa	MK	R
120 90 60	1	
40 30		
20	-	
14		
		No. of Concession, Name

SDS-PAGE



+86-27-59760950 ELKbio@ELKbiotech.com

www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.Q