

Igf1

Recombinant Rat Insulin-Like Growth Factor 1

Catalog No.	CRI117B CRI117C	Quantity:	50 µg 1.0 mg
Alternate Names:	Insulin-like growth factor 1, Insulin-like growth factor I, IGF-I, Somatomedin		
Description:	Insulin-like growth factor I (IGF-I) is a growth factor that is produced by the liver. IGF-I production is stimulated by growth hormone (GH). IGF-I binds the insulin-like growth factor I receptor (IGF-I receptor) 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. Mature human IGF-I shares 100% homology with bovine and porcine IGF-I.		
UniProt ID:	P08025		
Source:	<i>E. coli</i>		
Molecular Weight:	7.7 kDa (70 aa) monomer		
Formulation:	Lyophilized from a 0.2 µm filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)		
Purity:	>95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	<0.05 EU/µg as determined by USP <85>/ EP 2.6.14		
Biological Activity:	ED ₅₀ is 51-85 ng/ml, determined by dose dependent proliferation of MCF-7 cells.		
Specific Activity:	2.0 x 10 ⁴ units/mg		
Amino Acid Sequence:	GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPTKSA		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to the vial for a concentration 0.1- 1.0 mg/ml. Mix gently, allow sufficient time for complete solubilization. Do not vortex.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		

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