

IGF1

Recombinant Rat Insulin-Like Growth Factor 1

Catalog No.	CRI117A CRI117B CRI117C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	IGF1A, IGFI, insulin-like growth factor 1, MGF, IGF-IA, IGF-IB, somatomedin-C, mechano growth factor, insulin-like growth factor IA, insulin-like growth factor IB		
Description:	<p>Insulin-like Growth Factor I, IGF-I, is a growth factor produced in response to growth hormone-stimulated liver tissue and can be found circulating throughout the body and throughout life. IGF-I activates the IGF-I receptor (IGF1R) and the insulin receptor to mediate growth of almost every cell of the body. IGF-I is known as one of the most potent activators of the AKT signaling pathway which is known to be a stimulator of proliferation and an inhibitor of programmed cell death. Mature human IGF-I is 100% homologous with bovine and porcine proteins.</p> <p>Recombinant Rat IGF-1 is a single, non-glycosylated polypeptide chain containing 70 amino acids.</p>		
Gene ID:	24482		
Source:	<i>E. coli</i>		
Molecular Weight:	~7.7 kDa		
Formulation:	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)		
Purity:	>97% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	The activity is measured in a proliferation assay using FDC-P1 cells and is typically less than 100 ng/mL.		
Specific Activity:	1 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 or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. Avoid repeated freeze/thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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