

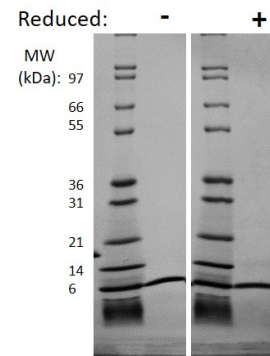
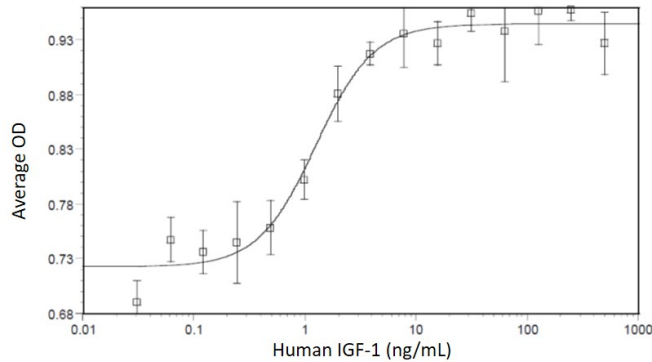
IGF1

Recombinant Human Insulin-like Growth Factor I

Catalog No.	CRI500A CRI500B CRI500C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	IGF-I, Somatomedin-C, Mechano growth factor, MGF		
Description:	Insulin-like growth factor 1 (IGF-I) is a member of the IGF family of mitogenic peptide growth factors, along with insulin and IGF-II. IGF-I stimulates proliferation and survival of various cell types including muscle, bone, and cartilage tissue. IGF-1 is produced primarily by the liver as an endocrine hormone as well as in target tissues in a paracrine/autocrine fashion. The production of IGF-1 is stimulated by growth hormone (GH). Both IGF-I and IGF-II signal through the tyrosine kinase type I receptor (IGF-IR). Proteolytic processing of inactive precursor proteins, which contain N-terminal and C-terminal propeptide regions, generates mature IGFs.		
Gene ID:	3479		
UniProt ID:	P05019		
Source:	<i>E. coli</i>		
Molecular Weight:	Monomer, 7.7 kDa (70 aa)		
Formulation:	Lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic acid (TFA).		
Purity:	≥95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1.0 EU/µg		
Biological Activity:	ED ₅₀ ≤ 10 ng/ml, determined by dose-dependent proliferation of mouse FDC-P1 cells		
Specific Activity:	≥ 1.0 x 10 ⁵ U/mg		
Amino Acid Sequence:	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for reconstitution.		
Storage & Stability:	Upon receipt , store as supplied at -20°C to -80°C for up to one year. Upon reconstitution , the preparation is stable for up to one month at 2-8 °C, 3 months at -20° C to -80°C. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. Avoid repeated freeze-thaw cycle.		



Human IGF-1 Induced FDC-P1 Proliferation



Human IGF-I Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IGF-I has a predicted MW of 7.7 kDa.

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



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