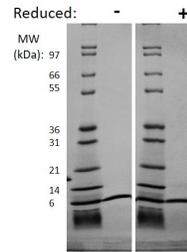


## IGF1

### Recombinant Human IGF-I, Animal Free

<b>Catalog No.</b>	CRI500A-AF CRI500B-AF CRI500C-AF	<b>Quantity:</b>	20 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	IGF-IA, Somatomedin-C, Mechano growth factor		
<b>Description:</b>	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.		
<b>Gene ID:</b>	3479		
<b>UniProt ID:</b>	P05019		
<b>Source:</b>	<i>E. coli</i> <b>Manufactured without Animal-derived products, in an Animal Free facility..</b>		
<b>Molecular Weight:</b>	Monomer, 7.7 kDa (70 aa)		
<b>Formulation:</b>	Lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic acid (TFA).		
<b>Purity:</b>	≥95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 0.1 EU/µg using USP <85>/ EP 2.6.14		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 1.5 ng/ml, determined by dose-dependent proliferation of MCF-7 cells. <b>Note: MCF-7 bioassay replaces the previous FDC-P1 bioassay.</b>		
<b>Amino Acid Sequence:</b>	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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. <b>DO NOT VORTEX.</b> Allow several minutes for reconstitution.		
<b>Storage &amp; Stability:</b>	<b>Upon receipt</b> , store as supplied at -20°C to -80°C for up to one year. <b>Upon reconstitution</b> , the preparation is stable for up to one month at 2-8 °C, 3 months at -20° C to -80°C. <b>For long term storage</b> reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. <b>Avoid repeated freeze-thaw cycles</b>		





#### 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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