

## IGF1

### Recombinant Human Insulin-like Growth Factor 1

<b>Catalog No.</b>	CRI500A CRI500B CRI500C	<b>Quantity:</b>	20 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	IGF-I		
<b>Description:</b>	Insulin-like Growth Factor 1 (IGF1) is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. IGF1 is processed from a precursor, bound by a specific receptor, and secreted. Recombinant Human IGF1 is a single, non-glycosylated polypeptide chain containing 70 amino acids.		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	7.6 kDa		
<b>Formulation:</b>	Lyophilized from a sterile filtered solution in PBS, pH 7.4		
<b>Purity:</b>	>95.0% by HPLC and SDS-PAGE		
<b>Endotoxin Level:</b>	<0.1 ng/µg (1 EU/µg) of Recombinant Human IGF1		
<b>Biological Activity:</b>	Determined by a cell proliferation assay using FDC-PI cells. The ED <sub>50</sub> is <2.0 ng/mL.		
<b>Specific Activity:</b>	>5 x 10 <sup>5</sup> units/mg		
<b>Amino Acid Sequence:</b>	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. <b>Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.</b> Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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

