

## Igf1

### Recombinant Mouse Insulin-Like Growth Factor 1

<b>Catalog No.</b>	CRI501A	<b>Quantity:</b>	10 µg
	CRI501B		50 µg
	CRI501C		1.0 mg

**Alternate Names:** Somatomedin C, mechano growth factor, IGF-IA

**Gene ID:** 16000

**UniProt ID:** Q8CAR0

**Description:** Insulin-like Growth Factor I, IGF-I, is a growth factor produced in response to growth hormone-stimulated liver 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.

**Source:** *E. coli*

**Molecular Weight:** 7.7 kDa (70 aa)

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

**Purity:** ≥ 95% by reducing and non-reducing SDS-PAGE

**Endotoxin Level:** ≤ 1 EU/µg, by kinetic LAL

**Biological Activity:** ED50 < 20 ng/ml, determined by the dose-dependent proliferation of FDC-P1 cells.

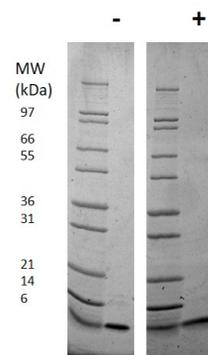
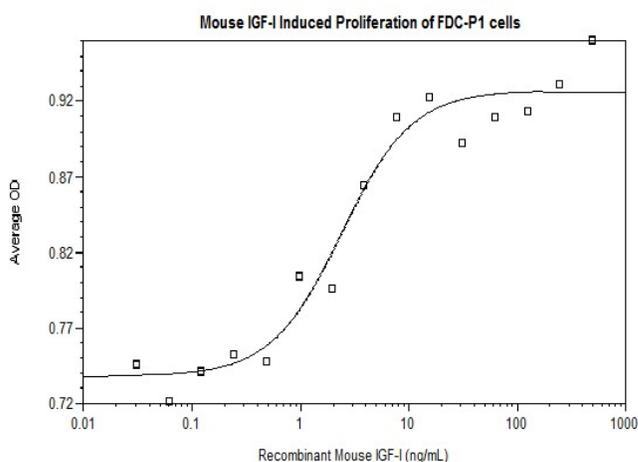
**Specific Activity:** 5.0 x 10<sup>4</sup> U/mg

**Amino Acid Sequence:** GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR  
SCDLRRLEMY CAPLKPTKAA

**Reconstitution:** **Centrifuge vial before opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

## Storage & Stability:

Store as supplied at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . Upon reconstitution, prepare working aliquots and store at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. **Avoid repeated freeze thaw cycles.**



## Mouse IGF-I Gel

Figure: 1 ug of protein run under (-) non-reducing and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse 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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