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## 32-12119: Mouse Insulin-like Growth Factor I

 Gene :
 Igf1

 Gene ID :
 16000

 Uniprot ID :
 Q8CAR0

Alternative Name: Somatomedin C, mechano growth factor, IGF-IA

## **Description**

**Source:** Genetically modified E.coli. **Predicted MW:** Monomer, 7.7 kDa (70 aa)

Insulin-like growth factor I (IGF-I) is a growth factor that is produced by the liver. IGF-1 production is stimulated by growth hormone (GH). IGF-I binds the insulin-like growth factor 1 receptor (IGF1R) and the insulin receptor to stimulate systemic body growth. IGF-I is one of the most potent activators of the AKT signaling pathway, which stimulates cell proliferation and inhibits programmed cell death.

## **Product Info**

**Amount**: 50 μg / 100 μg

**Purification:** Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic

Content: Acid (TFA)

Sterile water at 0.1 mg/mL

Storage condition: Store at -20°C

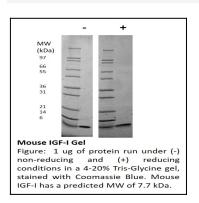
Amino Acid: GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY

CAPLKPTKAA

## **Application Note**

Endotoxin: Less than 0.1 ng/Âμg (1 IEU/Âμg) as determined by LAL test.

Biological Activity was determined by FDC-P1 cell proliferation at <=20 ng/mL;  $>=5.0 \times 10^4$  units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80\text{Å}^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.





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