

For Research Use Only

# Recombinant Mouse IGF1 protein (rFc Tag)



Catalog Number: Eg1939

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Mouse IGF-1 protein Gly33-Ala102 (Accession# Q8CAR0) with a rabbit IgG Fc tag at the N-terminus.

**GeneID:**

16000

**Accession:**

Q8CAR0

**Predicted Molecular Mass:**

34.9 kDa

**SDS-PAGE:**

32-42 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Insulin-like-growth factor 1 (IGF-1), a 70 amino-acid peptide hormone is the principal mediator of biochemical effects of growth hormone (GH). IGF-1 is an important growth factor in the regulation of cell proliferation and differentiation. IGF-1 is largely synthesized in the liver (75%) and, to a lesser extent, in peripheral tissues. IGF-1 have been shown to play an essential role in preventing the formation of fatty liver. IGF-1 is a potent mitogen and is inhibited by IGF-binding protein-3 (IGFBP3). High serum IGF-1 and low IGFBP3 are associated with increased risk of several carcinomas. Mice lacking IGF-1 exhibit generalized organ hypoplasia including underdevelopment of the central nervous system and developmental defects in bone, muscle and reproductive systems.

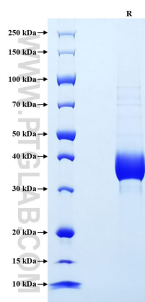
## References

1. Adamo ML. et al. (1993). Adv Exp Med Biol. 343:1-11.
2. Adachi Y. et al. (2019). J Gastroenterol Hepatol. 34(12):2104-2111.
3. Anisimov VN. et al. (2019). Crit Rev Oncol Hematol. 87(3):201-23.
4. Sonntag WE. et al. (2012). J Gerontol A Biol Sci Med Sci. 67(6):587-98.

## Synonyms

Igf1, Igf-1, IGF-I, Insulin-like growth factor I, Somatomedin

## Selected Validation Data



Purity of Recombinant Mouse IGF-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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