

PRODUCT INFORMATION

IGF1 **Target**

Synonyms Igf-1;Igf-I

Recombinant mouse IGF1 protein with N-terminal Description

human Fc tag

Delivery In Stock **Uniprot ID** P05017 **HEK293 Expression Host**

Tag N-Human Fc Tag

Molecular

hFc(Glu99-Ala330) Mouse IGF1(Gly49-Ala118) Characterization

The protein has a predicted molecular mass of

33.8 kDa after removal of the signal peptide. The **Molecular Weight** apparent molecular mass of hFc-mIGF1 is

approximately 35-55 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

This gene encodes a member of the insulin-like growth factor (IGF) family of proteins that promote growth and development during fetal and postnatal life. This gene is predominantly expressed in the liver and the encoded protein undergoes proteolytic processing to generate a disulfide-linked mature polypeptide. Transgenic disruption of this gene in mice results in reduced postnatal survival and severe growth retardation.

Background Mice lacking the encoded protein exhibit

generalized organ hypoplasia including underdevelopment of the central nervous system and developmental defects in bone, muscle and reproductive systems. Alternative splicing results

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in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Usage Research use only

Conjugate Unconjugated

Figure 1. Mouse IGF1 Protein, hFc Tag on SDS-PAGE under reducing condition.



