## PRODUCT INFORMATION

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| **Target** | IGF1 |
| **Synonyms** | Igf-1;Igf-I |
| **Description** | Recombinant mouse IGF1 protein with N-terminal human Fc tag |
| **Delivery** | In Stock |
| **Uniprot ID** | P05017 |
| **Expression Host** | HEK293 |
| **Tag** | N-Human Fc Tag |
| **Molecular Characterization** | hFc(Glu99-Ala330) Mouse IGF1(Gly49-Ala118) |
| **Molecular Weight** | The protein has a predicted molecular mass of 33.8 kDa after removal of the signal peptide. The apparent molecular mass of hFc-mIGF1 is approximately 35-55 kDa due to glycosylation. |
| **Purity** | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| **Formulation & Reconstitution** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| **Storage&Shipping** | 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 at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Background** | 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. 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 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 |

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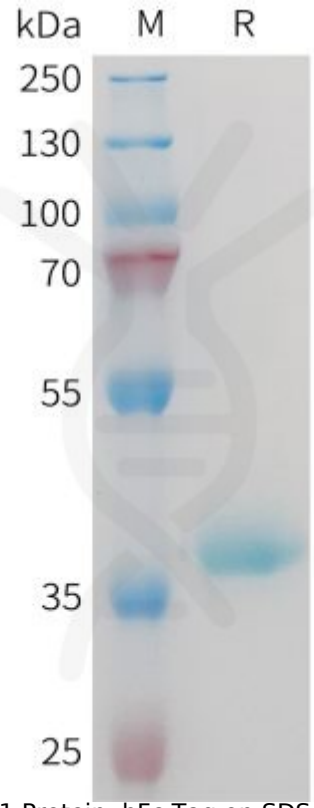



Figure 1. Mouse IGF1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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