# **Recombinant Mouse GDF15 Protein**



Catalog No.: RP03177 Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot**Mouse 23886 Q9Z0I7

Tags N-hFc

**Synonyms** 

GDF-15; MIC-1; NAG-1; PDF; PLAB; PTGFB; GDF15; MIC1; RG-1; Placental TGF-beta; PTGF-beta; PTGFBPTGF-beta

# **Product Information**

Source

**Purification** 

HEK293 cells ≥ 95 % as determined by Tris-

Bis PAGE;≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

37.9 kDa 40-50 kDa

**Endotoxin** 

< 1 EU/µg of the protein by LAL method.

### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### Contact

# **Background**

Growth Differentiation Factor 15 (GDF15), also known as NSAID activated gene-1 (NAG-1), is associated with a large number of biological processes and diseases, including cancer and obesity. GDF15 is synthesized as pro-GDF15, is dimerized, and is cleaved and secreted into the circulation as a mature dimer GDF15.

#### **Basic Information**

# **Description**

Recombinant Mouse GDF15 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ser189-Ala303) of mouse GDF15 (Accession #Q9Z0J7) fused with a hFc tag at the N-terminus.

#### **Bio-Activity**

Immobilized Mouse GFRAL, His Tag at 2  $\mu$ g/mL (100 $\mu$ L/well) on the plate. Dose response curve for Mouse GDF15, hFc Tag with the EC<sub>50</sub> of 3.0 ng/mL determined by ELISA.

#### **Shipping**

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

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

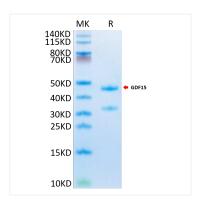
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

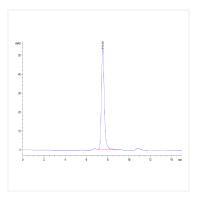
#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

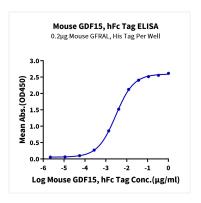
# **Validation Data**



Recombinant Mouse GDF15 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Mouse GDF15 is greater than 95% as determined by SEC-HPLC.



Immobilized Mouse GFRAL, His Tag at 2  $\mu$ g/mL (100 $\mu$ L/well) on the plate. Dose response curve for Mouse GDF15, hFc Tag with the EC<sub>50</sub> of 3.0 ng/mL determined by ELISA.