

# Biotinylated Recombinant Mouse GARP&Latent TGF beta 1 Complex Protein

Catalog No.: RP02766B Recombinant

# **Sequence Information**

 Species
 Gene ID
 Swiss Prot

 Mouse
 21803&4342
 G3XA59(GAR

 15
 P)&P04202(L

 atent TGF

beta 1)

# Tags

N-His&Avi

#### **Synonyms**

LRRC32; GARP; LAP; TGF-beta-1; LRRC32&TGF-beta 1; LRRC32&TGFB1

#### **Product Information**

## Source Purification

HEK293 cells  $\geq$  95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

## Calculated MW Observed MW

66.6 kDa (GARP), 72-76 kDa (GARP), 44.2 kDa (Latent 13, 45-47 kDa TGF beta 1) (Latent TGF beta 1)

#### **Endotoxin**

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

# **Formulation**

Lyophilized from a 0.22  $\mu m$  filtered solution of PBS, pH 7.4.

### 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

## 400-999-6126

# **Background**

GARP&Latent TGF Beta is a complex found on surface of many types of cells. In Tregs, GARP is involved in TCR-mediated activation of Latent TGF- $\beta$  and thus promoting secretion and activation of TGF- $\beta$ . Integrin  $\alpha\nu\beta8$  on the surface of immune cells and other cells recognizes RGD in LAP, resulting in the release of mature TGF- $\beta$  from the TGF- $\beta$ &GARP complex.

## **Basic Information**

### **Description**

Biotinylated Recombinant Mouse GARP&Latent TGF beta 1 Complex Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ala18-Leu628(GARP)&Leu30-Ser390(Latent TGF beta 1)) of Mouse GARP&Latent TGF beta 1 fused with a His and Avi tag at the N-terminal.

## **Bio-Activity**

#### 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.

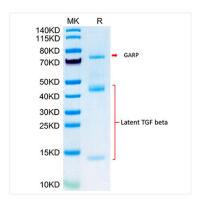
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

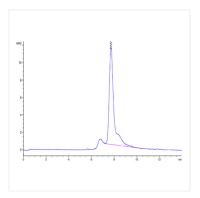
#### **Operational Notes**

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

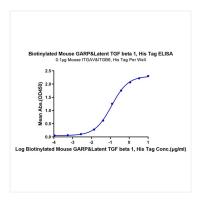
# **Validation Data**



Biotinylated Recombinant Mouse GARP&Latent TGF beta 1 Complex Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Mouse GARP&Latent TGF beta 1 Complex is greater than 95% as determined by SEC-HPLC.



Immobilized Mouse ITGAV&ITGB6, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Mouse GARP&Latent TGF beta 1 Complex, His Tag with the EC $_{50}$  of 0.12 $\mu$ g/ml determined by ELISA.