

# Recombinant Mouse Latent TGF-beta 1 Protein

Catalog No.: RP01167 **Recombinant** **1 Publications**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21803	P04202

### Tags

N-His

### Synonyms

TGF-beta1;Tgfb;Tgfb-1;TGFbeta1;CED;DPD1;LAP;TGFB;TGFbeta;TGFB1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
42.11 kDa	15 kDa,40-45 kDa,55-60 kDa

### Endotoxin

< 0.1 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 vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile 4 mM HCl. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

### Basic Information

#### Description

Recombinant Mouse Latent TGF-beta 1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu30-Ser390) of mouse TGF-beta 1 (Accession #NP\_035707.1) fused with a 8×His tag at the N-terminus.

#### Bio-Activity

Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED<sub>50</sub> for this effect is 0.02-0.1 ng/mL, corresponding to a specific activity of 1.0×10<sup>7</sup>-5.0×10<sup>7</sup> units/mg.

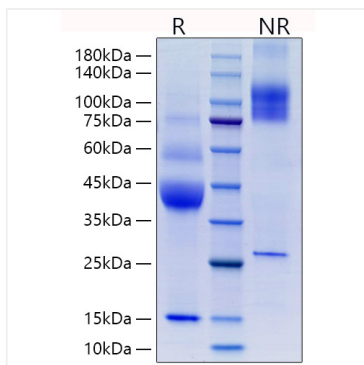
#### Storage

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

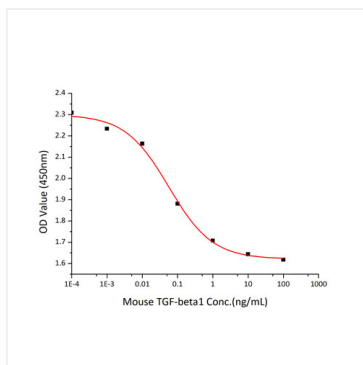
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data



Recombinant Mouse Latent TGF-beta 1 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions, showing single bands at 15,40-45,55-60 kDa and 30, 80-90,110-120 kDa, respectively.



Recombinant Mouse TGF-beta 1 inhibits the IL-4-dependent proliferation of HT-2 mouse T cells. The ED<sub>50</sub> for this effect is 0.02-0.1 ng/mL, corresponding to a specific activity of  $1.0 \times 10^7$ - $5.0 \times 10^7$  units/mg.