

# Recombinant Human Latent TGF-beta 1 (C33S) Protein www.abclonal.com

Catalog No.: RP00161 Recombinant 2 Publications

# **Sequence Information**

Species Gene ID Swiss Prot Human 7040 P01137

#### **Tags**

N-His

### **Synonyms**

TGFB1; CED; DPD1; LAP; TGFB; TGFbeta; transforming growth factor beta-1;TGF-beta

1;CED;DPD1;LAP;TGFB;TGFbeta;TGF-β

# **Product Information**

**Source**HEK293 cells
Purification
> 95% by SDSPAGE.

Calculated MW Observed MW

42.09 kDa 13 kDa, 42 kDa, 60

kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g 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 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

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# **Background**

## **Basic Information**

#### Description

Recombinant Human Latent TGF-beta 1 (C33S) Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu30-Ser390(C33S)) of human TGF-beta 1 (Accession #NP\_000651.3) fused with an 8×His tag at the N-terminus.

## **Bio-Activity**

1.Measured by its ability to inhibit cell proliferation of TF-1 human erythroleukemic cells. The ED $_{50}$  for this effect is typically 0.5-2 ng/mL, corresponding to a specific activity of  $5.0\times10^5\sim2.0\times10^6$  units/mg.|2.Measured by its binding ability in a functional ELISA. Immobilized recombinant human TGFB1 at 2 µg/mL (100 µL/well) can bind recombinant human TGFBR2 with a linear range of 1-5 ng/mL.|3.Measured by its ability to inhibit the IL-4(Catalog: RP01161)-dependent proliferation of HT-2 mouse T cells. The ED $_{50}$  for this effect is 9.75-39 ng/mL, corresponding to a specific activity of  $2.6\times10^4\sim1.0\times10^5$  units/mg.

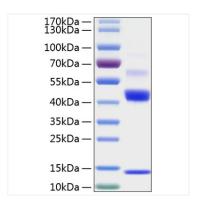
## **Storage**

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

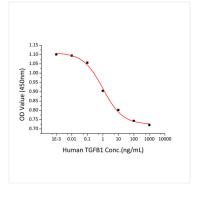
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

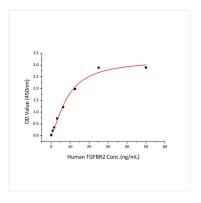
# **Validation Data**



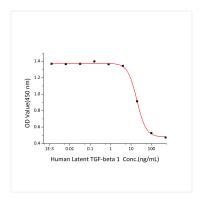
Recombinant Human Latent TGF-beta 1 (C33S) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human TGF-beta 1 inhibits cell proliferation of TF-1 human erythroleukemic cells. The ED $_{50}$  for this effect is typically 0.5-2 ng/mL, corresponding to a specific activity of  $5.0\times10^5\sim2.0\times10^6$  units/mg.



Immobilized recombinant human TGFB1 at 2  $\mu g/mL$  (100  $\mu L/well)$  can bind recombinant human TGFBR2 with a linear range of 1-5 ng/mL.



Recombinant Human TGF-beta 1 inhibit the IL-4(Catalog: RP01161)-dependent proliferation of HT-2 mouse T cells. The ED $_{50}$  for this effect is 9.75-39 ng/mL, corresponding to a specific activity of  $2.6\times10^4\sim1.0\times10^5$  units/mg.