

Active Recombinant Human Latent TGF-beta 1(C33S) Protein

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	Purification
HEK293 cells	> 95% by SDS-PAGE.

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

Active 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.

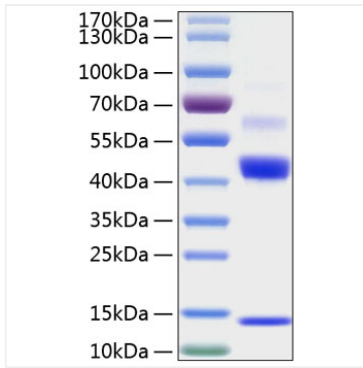
Bio-Activity

1. Measured by its ability to inhibit cell proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 0.5-2 ng/mL, corresponding to a specific activity of 5.0×10⁵~2.0×10⁶ 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 ED₅₀ for this effect is 9.75-39 ng/mL, corresponding to a specific activity of 2.6×10⁴~1.0×10⁵ units/mg.

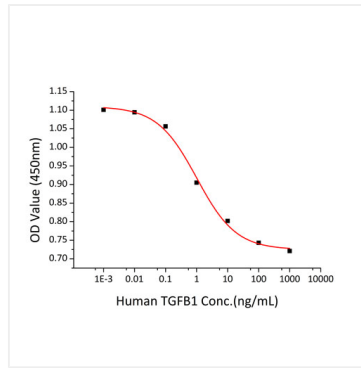
Storage

Store the lyophilized protein at -20°C to -80 °C for long term. 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.

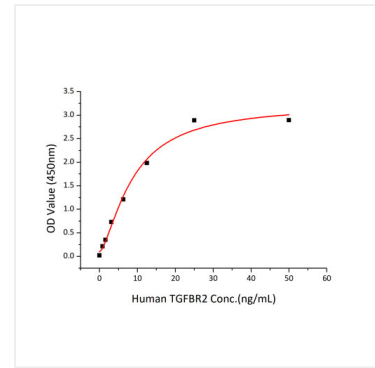
Validation Data



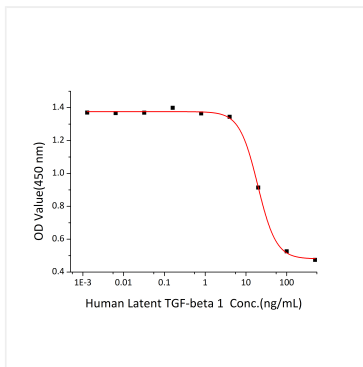
Active Recombinant Human TGF-beta 1(C33S) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 13&42&60kDa.



Recombinant Human TGF-beta 1 inhibits cell proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 0.5-2 ng/mL, corresponding to a specific activity of $5.0 \times 10^5 \sim 2.0 \times 10^6$ units/mg.



Immobilized recombinant human TGFB1 at 2 µg/mL (100 µL/well) can bind recombinant human TGFB2 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 ED₅₀ for this effect is 9.75-39 ng/mL, corresponding to a specific activity of $2.6 \times 10^4 \sim 1.0 \times 10^5$ units/mg.