

Biotinylated Recombinant Human Latent TGF-beta 1 Protein

Catalog No.: RP00368B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7040	P01137

Tags

N-His&Avi

Synonyms

CEDLAP; DPD1; TGF beta1; TGFβ; TGFβ1; TGFβeta; TGF-beta-1; TGF β1; TGFβ; TGF-β-1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 93% by HPLC

Calculated MW	Observed MW
44.2 kDa	40-50 kDa (LAP), 13-15 kDa (Mature TGF beta 1)

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial 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 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

Latent TGF beta 1 cDNA encodes a 390 amino acid precursor that contains a 29 aa signal peptide and a 361 aa proprotein. A furin-like convertase processes the proprotein to generate an N-terminal 249 aa latency-associated peptide (LAP) and a C-terminal 112 aa mature TGF beta 1. Disulfide-linked homodimers of LAP and TGF beta 1 remain non-covalently associated after secretion, forming the small latent TGF beta 1 complex.

Basic Information

Description

Biotinylated Recombinant Human Latent TGF-beta 1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu30-Ser390(C33S)) of Human Latent TGF beta 1/TGFB1 (Accession #P01137) fused with a N-His&Avi tag at the N-terminus.

Bio-Activity

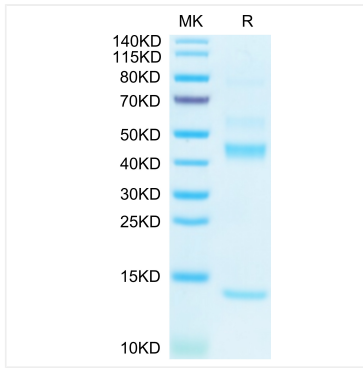
Storage

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.

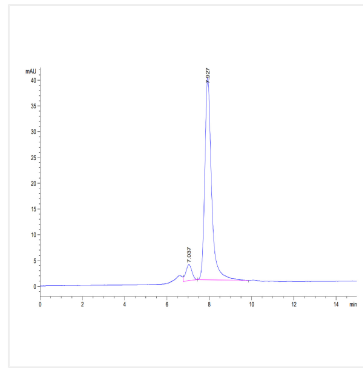


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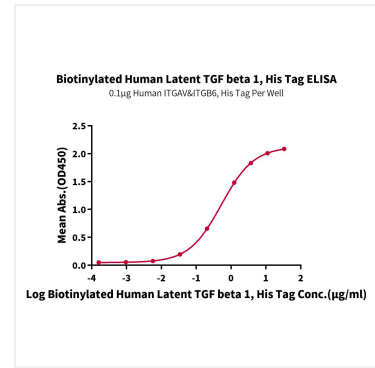
Validation Data



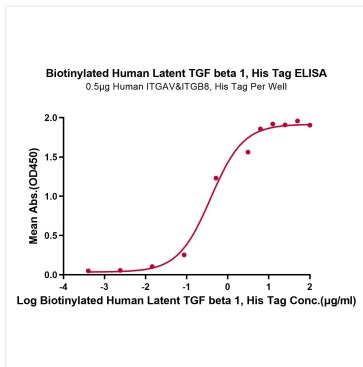
Biotinylated Human Latent TGF beta 1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human Latent TGF beta 1 is greater than 93% as determined by SEC-HPLC.



Immobilized Human ITGAV&ITGB6, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC₅₀ of 0.53 µg/mL determined by ELISA (QC Test).



Immobilized Human ITGAV&ITGB8, His Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC₅₀ of 0.39ug/mL determined by ELISA.