Biotinylated Recombinant Human Latent TGF-beta 1 Protein

Catalog No.: RP00368B

Sequence Information

Species
Human

Gene ID
7040

Swiss Prot
P01137

Tags
N-His&Avi

Synonyms
CEDLAP; DPD1; TGF beta1; TGFB; TGFB1; TGFbeta; TGF-beta-1; TGF β1; TGFβ; TGF-β-1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
44.2 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

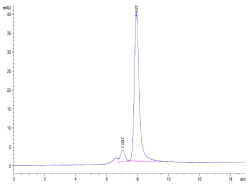
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

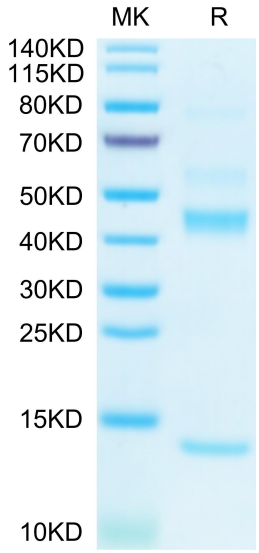
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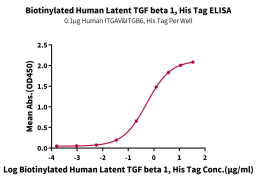
Validation Data



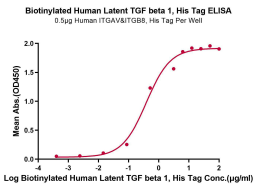
The purity of Biotinylated Human Latent TGF beta 1 is greater than 93% as determined by SEC-HPLC.



Biotinylated Recombinant Human Latent TGF-beta 1 Protein was determined by Tris-Bis PAGE under reducing conditions.



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 EC_{50} 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 EC_{50} of 0.39ug/mL determined by ELISA.