

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; TGFB; TGFB1; TGFbeta; TGF-beta-1; TGF β1; TGFβ; TGF-β-1

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE;≥ 90 % as determined 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 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

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 $^{\circ}\text{C}$ for 3 months, at 2-8 $^{\circ}\text{C}$ for up to 1 week.

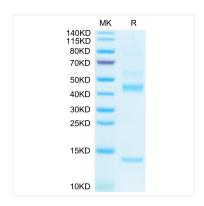
Avoid repeated freeze/thaw cycles.

Operational Notes

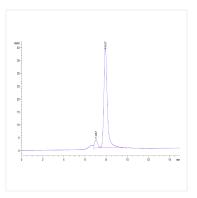
For your safety and health, please wear a lab coat and disposable gloves for handling.

2	400-999-6126
\sim	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

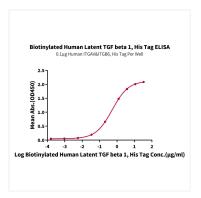
Validation Data



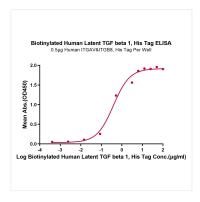
Biotinylated Recombinant Human Latent TGF-beta 1 Protein was determined by Tris-Bis PAGE under reducing conditions.



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 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC₅₀ of 0.53 μ g/mL determined by ELISA (QC Test).



Immobilized Human ITGAV&ITGB8, His Tag at 5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC $_{50}$ of 0.39 μ g/mL determined by ELISA.