

Human TGF-beta 1/TGFB1 (His Tag) recombinant protein



Catalog Number: 503624

General Information

Gene Name Synonym

Latency-associated peptide

Protein Construction

A DNA sequence encoding the full length of human TGFβ1 (NP_000651.3) (Met 1-Ser 390) was fused with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to bind biotinylated Human ALK1-Fc (Cat:501915) in functional Elisa.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Leu 30 & Ala 279

Molecular Mass

The recombinant human latent TGFβ1 consists of 370 amino acids and has a calculated molecular

mass of 42.4 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh TGFβ1 is approximately 16, 38 and 55 kDa corresponding to mature TGFβ1, LAP protein and inactive latent TGFβ1 respectively due to glycosylation. In non-reduced SDS-PAGE, it migrates as an approximately 110 kDa protein consisting of a TGFβ1 homodimer non-covalently linked to a LAP homodimer.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

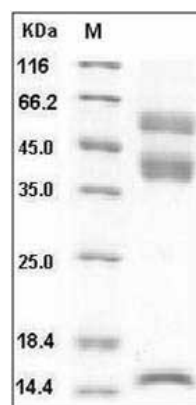
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human Latent TGF-beta 1 / TGFB1 Protein (His Tag) SDS-PAGE