

Human TGFBR1 / ALK-5 (His & Fc Tag) recombinant protein



Catalog Number: 501368

General Information

Gene Name Synonym

Activin A receptor type II-like protein kinase of 53kD; Activin receptor-like kinase 5; Serine/threonine-protein kinase receptor R4; TGF-beta type I receptor; Transforming growth factor-beta receptor type I

Protein Construction

A DNA sequence encoding the human TGFBR1 (NP_004603.1) extracellular domain (Met 1-Glu 125) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized mouse CD105 at 10 µg/ml (100 µl/well) can bind human TGFRB1 with a linear ranger of 6.4-800 ng/ml.
2. Measured by its ability to bind human CD105 in a functional ELISA.

Purity

> 85 % 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

Ala 25

Molecular Mass

The recombinant human TGFBR1/Fc is a disulfide-linked homodimer. The reduced monomer consists of 349 amino acids and has a predicted molecular mass of 38.8 kDa. As a result of glycosylation, the apparent molecular mass of rh TGFBR1/Fc monomer is approximately 45-50 kDa in SDS-PAGE under reducing conditions, with ~10% free Fc fragments.

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

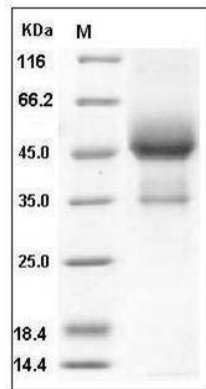
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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Tag) SDS-PAGE