

Recombinant Human TGF beta Receptor II Protein

Catalog No.: RP00239 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7048	P37173

Tags

C-hFc&His

Synonyms

AAT3;FAA3;LDS1B;LDS2;LDS2B;MFS2;RII C;TAAD2;TGFR-2;TGFbeta-RII;TGF beta Receptor II;TGFB2; AAT3; FAA3; LDS1B; LDS2; LDS2B; MFS2; RIIC; TAAD2; TGFR-2; TGFbeta-RII; TGF-beta receptor type-2

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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

Most cell types express three sizes of receptors for TGF-beta. These are designated Type I (53 kDa), Type II (70-85 kDa), and Type III (250-350 kDa). The Type III receptor, a proteoglycan that exists in membrane-bound and soluble forms, binds TGF-beta 1, TGF-beta 2, and TGF-beta 3 but does not appear to be involved in signal transduction. The Type II receptor is a membrane-bound serine/threonine kinase that binds TGF-beta 1 and TGF-beta 3 with high affinity and TGF-beta 2 with a much lower affinity. The Type I receptor is also a membrane-bound serine/threonine kinase that apparently requires the presence of the Type II receptor to bind TGF-beta. Current evidence suggests that signal transduction requires the cytoplasmic domains of both the Type I and Type II receptors.

Basic Information

Description

Recombinant Human TGFR-2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Thr23-Asp159) of human TGFB2 (Accession #NP_003233.4) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant human TGFβ1 at 2 μg/mL (100 μL/well) can bind recombinant human TGFB2 with a linear range of 1-5 ng/mL.

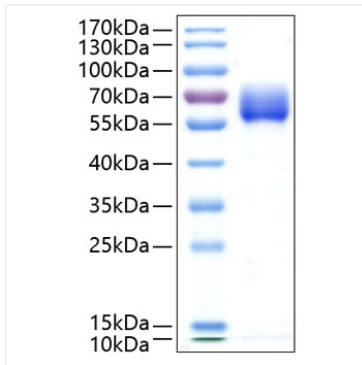
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

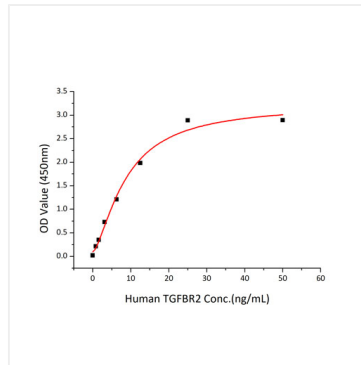
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human TGFR-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-75 kDa.



Immobilized recombinant human TGFB1 at 2 $\mu\text{g/mL}$ (100 μL /well) can bind recombinant human TGFBR2 with a linear range of 1-5 ng/mL.