

Biotinylated Human TGF-beta RII / TGFBR2 Protein, Fc,Avitag™ (MALS verified)

Catalog # TG2-H82F6



Synonym

TGFBR2, TGFR2, TbetaR-II, TGFβR2

Source

Biotinylated Human TGFBR2, Fc,Avitag (TG2-H82F6) is expressed from human 293 cells (HEK293). It contains AA Thr 23 - Asp 159 (Accession # [P37173-1](#)).

Predicted N-terminus: Thr 23

Molecular Characterization

TGFBR2(Thr 23 - Asp 159) P37173-1	Fc(Pro 100 - Lys 330) P01857	Avi
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[Other Tags and Version Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).
The protein has a calculated MW of 43.7 kDa. The protein migrates as 55-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

- >95% as determined by SDS-PAGE.
- >90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

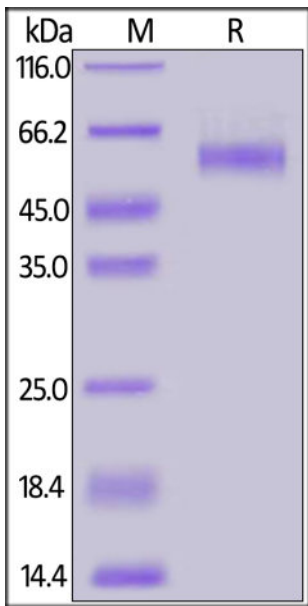
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

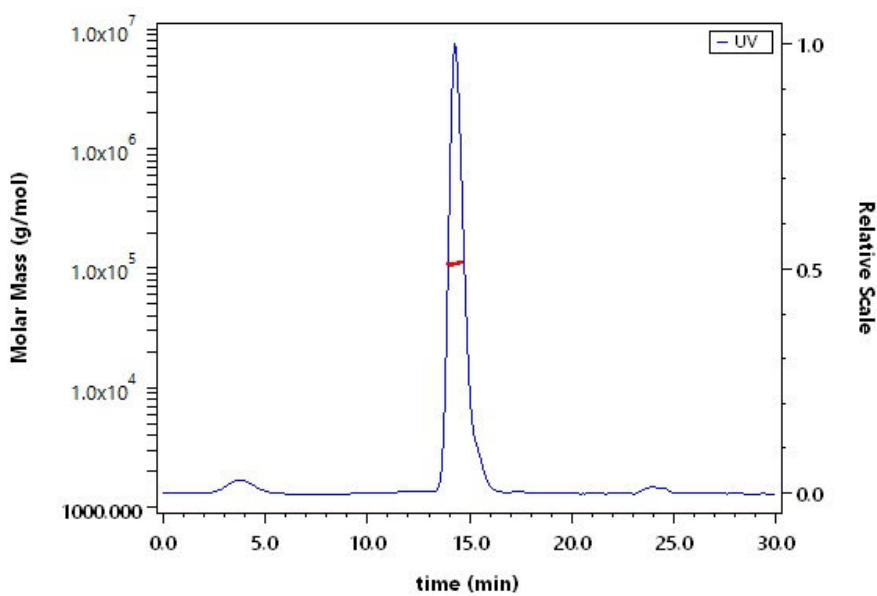
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

SEC-MALS

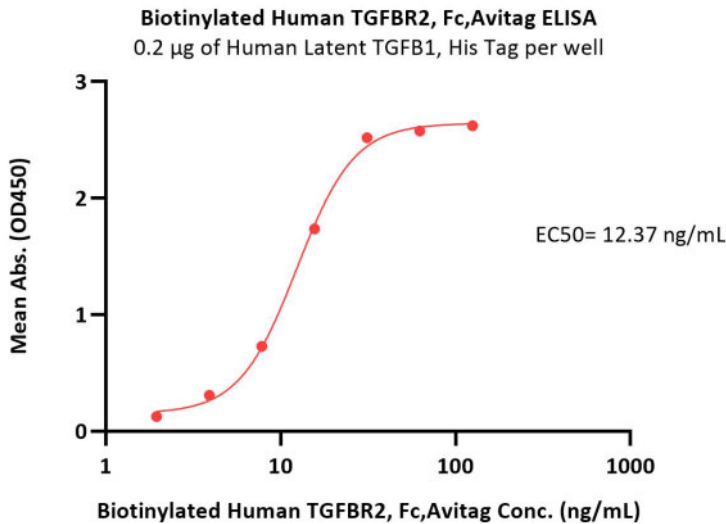


Biotinylated Human TGFBR2, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.



The purity of Biotinylated Human TGFBR2, Fc,Avitag (Cat. No. TG2-H82F6) is more than 90% and the molecular weight of this protein is around 110-125 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human Latent TGFB1, His Tag (Cat. No. TG1-H524x) at 2 µg/mL (100 µL/well) can bind Biotinylated Human TGFBR2, Fc,Avitag (Cat. No. TG2-H82F6) with a linear range of 2-16 ng/mL (QC tested).

Background

TGF-beta receptor type-2 (TGFBR2 or TGFR-2) is also known as TGF-beta type II receptor, Transforming growth factor-beta receptor type II, TbetaR-II, TGFβR2, which is a homodimer or heterohexamer, belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family and TGFB receptor subfamily. TGFR2 / TGFBR2 binds TGF-β1 / TGFB1 and TGF-β3 / TGFB3 with high affinity and TGF-β2 / TGFB2 with a much lower affinity. This type I I receptor forms a heterodimeric complex with type I receptor and is essential for signal transduction. Upon ligand binding, the TGFR2 autophosphorylates its cytoplasmic domain and subsequently phosphorylates the downstream molecules which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation.

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