



Synonym

TGFBR2, TGFR2, TbetaR-II, TGF β R2

Source

Human TGFBR2, Fc Tag (TG2-H5252) is expressed from human 293 cells (HEK293). It contains AA Thr 23 - Asp 159 (Accession # [NP_003233](#)).

Predicted N-terminus: Thr 23

Molecular Characterization

TGFBR2(Thr 23 - Asp 159)	Fc(Pro 100 - Lys 330)
NP_003233	P01857

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 42.1 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m 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.

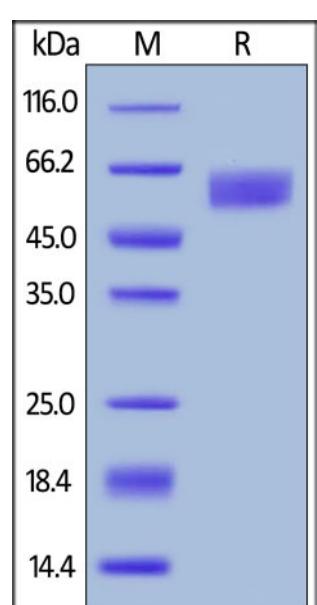
This product is stable after storage at:

- -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

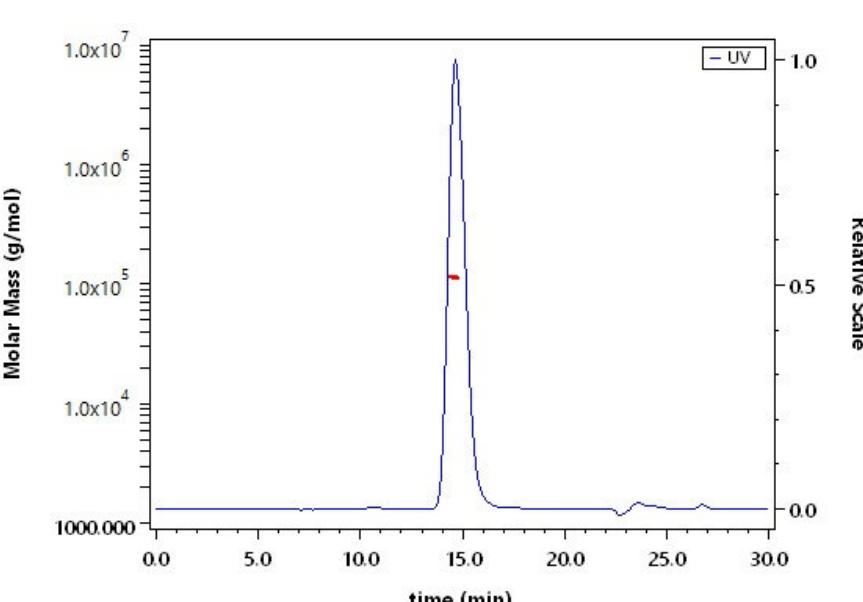
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



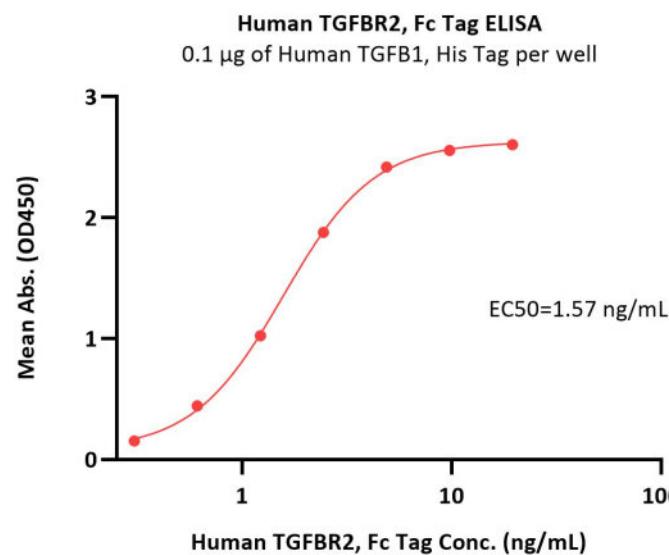
Human TGFBR2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human TGFBR2, Fc Tag (Cat. No. TG2-H5252) is more than 95% and the molecular weight of this protein is around 95-120 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human TGFB1, His Tag (Cat. No. TG1-H524x) at 1 μ g/mL (100 μ L/well) can bind Human TGFBR2, Fc Tag (Cat. No. TG2-H5252) with a linear range of 0.3-2 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, TGF β R2, 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- β 1 / TGFB1 and TGF- β 3 / TGFB3 with high affinity and TGF- β 2 / 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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