

**Synonym**

TGFBR2, TGFR2, TbetaR-II, TGFβR2

Source

Biotinylated Mouse TGF-beta RII, His,Avitag(TG2-M82H5) is expressed from human 293 cells (HEK293). It contains AA Ile 24 - Asp 184 (Accession # [Q62312-1](#)).

Predicted N-terminus: Ile 24

Molecular Characterization

TGFBR2(Ile 24 - Asp 184) Q62312-1	Poly-his	Avi
--------------------------------------	----------	-----

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 21.7 kDa. The protein migrates as 32-45 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.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

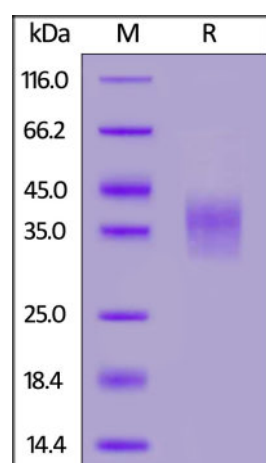
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

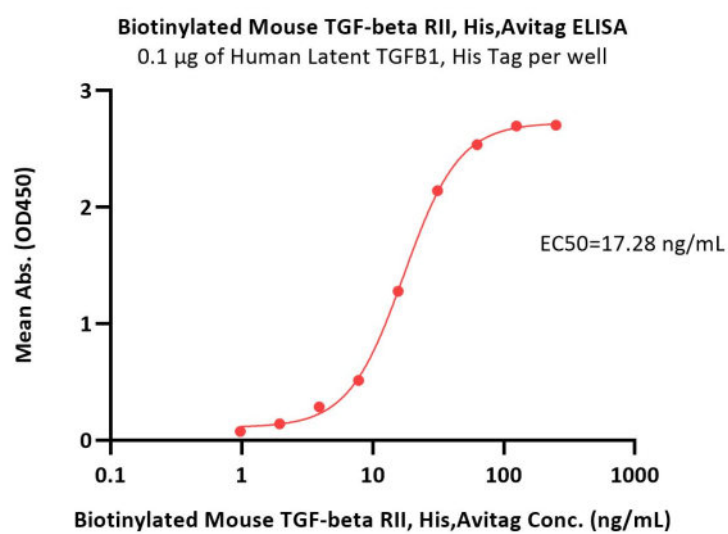
This product is stable after storage at:

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

SDS-PAGE

Biotinylated Mouse TGF-beta RII, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA**Discounts, Gifts,
and more!**



Immobilized Human Latent TGFB1, His Tag (Cat. No. TG1-H524x) at 1 µg/mL (100 µL/well) can bind Biotinylated Mouse TGF-beta RII, His,Avitag (Cat. No. TG2-M82H5) with a linear range of 1-31 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, TGFBR2, 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 II 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.

Clinical and Translational Updates

Discounts, Gifts,
and more!

