

# Biotinylated Human TGF-beta RII/TGFBR2 Protein

Cat. No. TGF-HM3R2B

## Description

<b>Source</b>	Recombinant Biotinylated Human TGF-beta RII/TGFBR2 Protein is expressed from HEK293 with mFc (IgG1) tag and Avi tag at C-Terminus. It contains Ile24-Asp159.
<b>Accession</b>	P37173-1
<b>Molecular Weight</b>	The protein has a predicted MW of 44 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The TGFBR2 gene provides instructions for making a protein called transforming growth factor-beta (TGF-β) receptor type 2. This receptor transmits signals from the cell surface into the cell through a process called signal transduction. Through this type of signaling, the environment outside the cell affects activities inside the cell such as stimulation of cell growth and division.

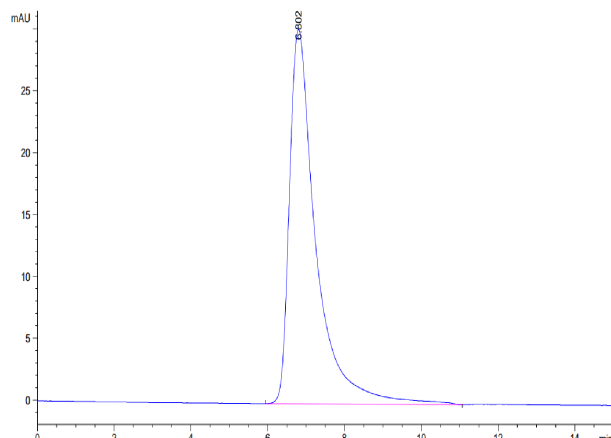
## Assay Data

### Bis-Tris PAGE



Biotinylated Human TGF-beta RII on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



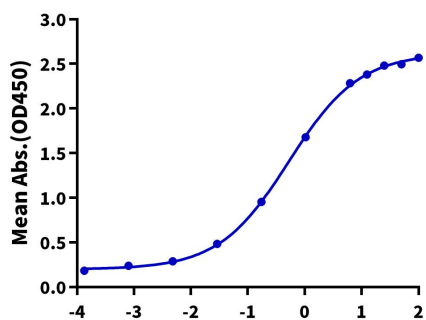
The purity of Biotinylated Human TGF-beta RII is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human TGF-beta RII, mFc Tag ELISA**

0.5µg Human Mature TGF beta 2, No Tag Per Well



Immobilized Human Mature TGF beta 2, No Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human TGF-beta RII, mFc Tag with the EC50 of 0.53µg/ml determined by ELISA (QC Test).

Log Biotinylated Human TGF-beta RII, mFc Tag Conc.(µg/ml)