

## TGFBR2 Protein, Human, Recombinant (mFc &amp; Avi), Biotinylated

## General Information

Synonyms:	LDS2B;TbetaR-II;TGFβR2;LDS2;RIIC;TGF-β RII/TGFBR2;TβR-II;TGFBR2;TAAD2;FAA3;AAT3;MFS2;LDS1B;TGFR2
Protein Construction:	Ile24-Asp159
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P37173-1
Molecular Weight:	44 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

## QC Testing

Biological Activity:	Immobilized Human Mature TGF beta 2, No Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human TGF-beta RII, mFc Tag with the EC50 of 0.16µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein 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.

Reference

Fricke F, et al. TGFBR2-dependent alterations of exosomal cargo and functions in DNA mismatch repair-deficient HCT116 colorectal cancer cells. Cell Commun Signal. 2017;15(1):14. Published 2017 Apr 4. doi:10.1186/s12964-017-0169-y.

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