

# Biotinylated Human Mature TGF beta 2 Protein

Cat. No. TG2-HM00MB

## Description

<b>Source</b>	Recombinant Biotinylated Human Mature TGF beta 2 Protein is expressed from HEK293 with Avi tag at the C-Terminus. It contains Ala303-Ser414.
<b>Accession</b>	P61812-1
<b>Molecular Weight</b>	The protein has a predicted MW of 14.53 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 4mM HCl. 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 4mM HCl.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Transforming growth factor beta(2) (TGF-beta(2)), a growth regulator of human lens epithelial cells (HLECs), also regulates the death of these cells. TGF-beta(2)-induced apoptosis in HLECs was preceded by an induction of reactive oxygen species (ROS) and a decrease in glutathione in the intracellular content, indicating that this factor induces oxidative stress in HLECs.

## Assay Data

### Tris-Bis PAGE



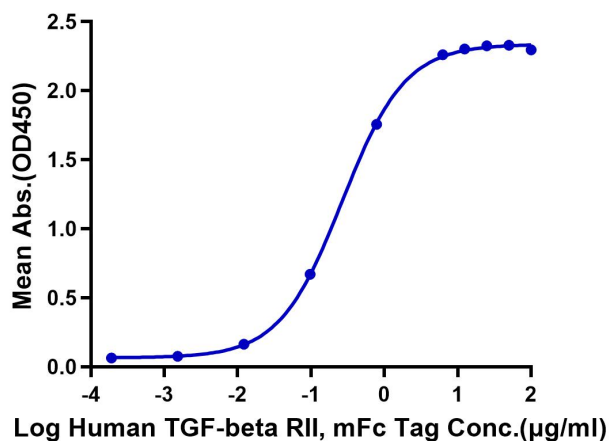
Biotinylated Human Mature TGF beta 2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Biotinylated Human Mature TGF beta 2, Avi Tag ELISA**

0.2µg Biotinylated Human Mature TGF beta 2, Avi Tag Per Well



Immobilized Biotinylated Human Mature TGF beta 2, Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human TGF-beta RII, mFc Tag with the EC50 of 0.27µg/ml determined by ELISA.