

Human Mature TGF beta 2 Protein

Cat. No. TG2-HM00M

Description

Source	Recombinant Human Mature TGF beta 2 Protein is expressed from HEK293 without tag. It contains Ala303-Ser414.
Accession	P61812-1
Molecular Weight	The protein has a predicted MW of 12.7 kDa. Due to glycosylation, the protein migrates to 13-15 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in 4mM HCl. Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 4mM HCl.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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

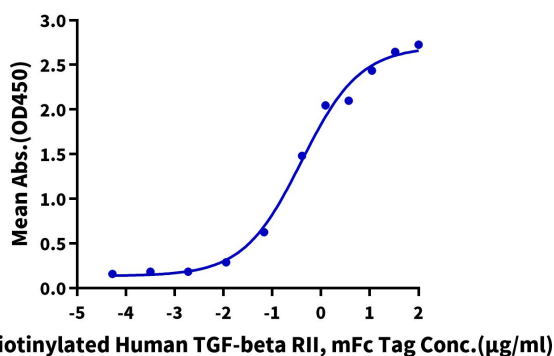


Human Mature TGF beta 2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human Mature TGF beta 2, No Tag ELISA

0.2µg Human Mature TGF beta 2, No Tag Per Well

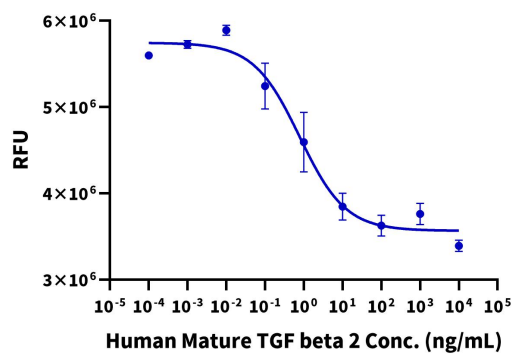


Immobilized Human Mature TGF beta 2, No Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human TGF-beta RII, mFc Tag with the EC50 of 0.40µg/ml determined by ELISA.

Assay Data

Cell Based Assay

Recombinant Human Mature TGF beta 2 Bioactivity



Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 cells. The ED50 for this effect is 0.1 - 1 ng/ml.