Human Mature TGF beta 2 Protein

Cat. No. TG2-HM00M



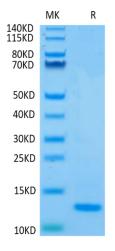
Description	
Source	Recombinant Human Mature TGF beta 2 Protein is expressed from HEK293 without tag.
	It contains Ala303-Ser414.
Accession	P61812-1
Molecular Weight	The protein has a predicted MW of 12.7 kDa. Due to glycosylation, the protein migrates to 13-15 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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 μ g/ml is recommended. Dissolve the lyophilized protein in 4mM HCl.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
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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

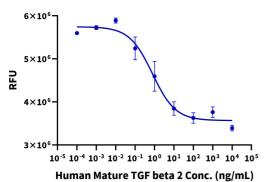
Bis-Tris PAGE



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

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 (QC Test).

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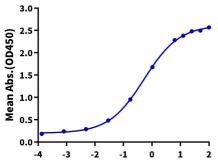
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ELISA Data

Human Mature TGF beta 2, No Tag ELISA

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



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



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