Human Mature TGF beta 2 Protein

Cat. No. TG2-HM00M

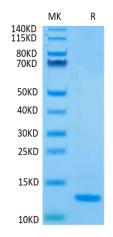


| Description | |
|-------------------------|---|
| Source | Recombinant Human Mature TGF beta 2 Protein is expressed from HEK293 without tag. |
| | It contains Ala303-Ser414. |
| Accession | P61812-1 |
| Molecular Weight | The protein has a predicted MW of 12.7 kDa. Due to glycosylation, the protein 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 μg/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. |
| 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

Assay Data

Bis-Tris PAGE

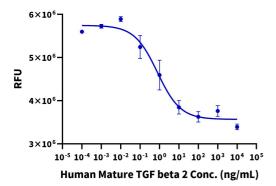


Human Mature TGF beta 2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Cell Based Assay

Recombinant Human Mature TGF beta 2 Bioactivity

factor induces oxidative stress in HLECs.



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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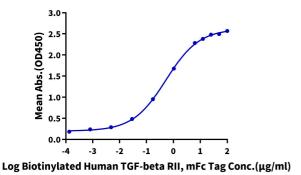


Assay Data

ELISA Data

Human Mature TGF beta 2, No Tag ELISA

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



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).