

Biotinylated Human Mature TGF beta 1 Protein

Cat. No. TG1-HM10MB

Description

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|-------------------------|--|
| Source | Recombinant Biotinylated Human Mature TGF beta 1 Protein is expressed from Expi293 with Avi tag at the C-terminal. It contains Ala279-Ser390. |
| Accession | P01137 |
| Molecular Weight | The protein has a predicted MW of 13.2 kDa. Due to glycosylation, the protein migrates to 15-17 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

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| Formulation | Lyophilized from 0.22µm filtered solution in 50mM Glycine, 150mM NaCl (pH 2.5). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in 50mM Glycine, 150mM NaCl (pH 2.5). |
| Storage | -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 avoid freeze-thaw cycles. |

Background

TGF-beta 1 (transforming growth factor beta 1) is one of three closely related mammalian members of the large TGF-beta superfamily that share a characteristic cystine knot structure. TGF-beta 1, -2 and -3 are highly pleiotropic cytokines that are proposed to act as cellular switches that regulate processes such as immune function, proliferation and epithelial-mesenchymal transition. Transforming growth factor beta-1 is multifunctional protein that regulates the growth and differentiation of various cell types and is involved in various processes, such as normal development, immune function, microglia function and responses to neurodegeneration.

Assay Data

Tris-Bis PAGE



Biotinylated Human Mature TGF beta 1 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

ELISA Data

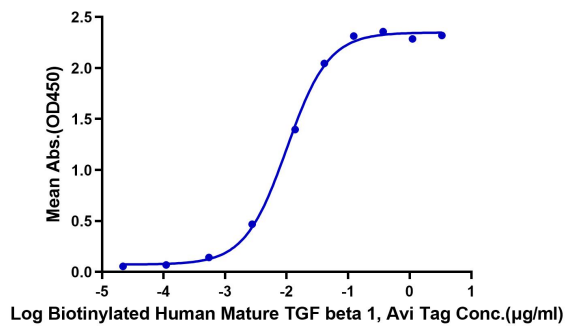
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Assay Data

Biotinylated Human Mature TGF beta 1, Avi Tag ELISA
0.1µg Human TGF-beta RII, hFc Tag Per Well



Immobilized Human TGF-beta RII, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Mature TGF beta 1, Avi Tag with the EC50 of 10.0ng/ml determined by ELISA.