

Biotinylated Human Mature TGF beta 1 Protein

Cat. No. TG1-HM10MB

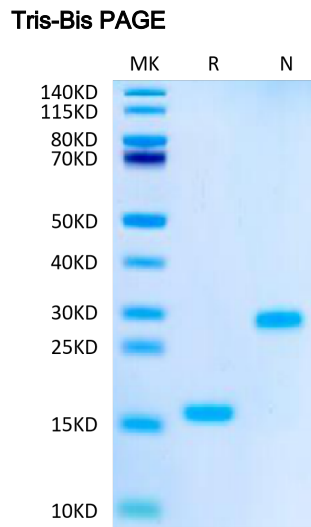
Description	
Source	Recombinant Biotinylated Human Mature TGF beta 1 Protein is expressed from HEK293 with Avi tag at the C-Terminus. It contains Ala279-Ser390.
Accession	P01137
Molecular Weight	The protein has a predicted MW of 13.2 kDa. Due to glycosylation, the protein migrates to 15-18 kDa under reduced (R) condition and 26-30 kDa under Non reducing (N) condition 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	Supplied as 0.22µm filtered solution in 50mM Glycine, 150mM NaCl (pH 2.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize 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.

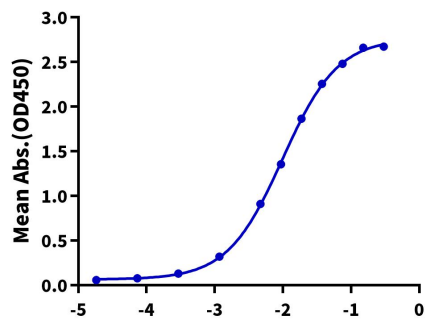
Assay Data



Biotinylated Human Mature TGF beta 1 on Tris-Bis PAGE under reduced (R) condition and Non reducing (N) condition. The purity is greater than 95%.

ELISA 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 9.9ng/ml determined by ELISA.