



[Go to Product page](#)

Datasheet for ABIN7275706

TGFB1 Protein (AA 279-390) (AVI tag,Biotin)

2 Images

Overview

Quantity:	100 µg
Target:	TGFB1
Protein Characteristics:	AA 279-390
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFB1 protein is labelled with AVI tag,Biotin.

Product Details

Sequence:	Ala279-Ser390
Purity:	> 95% as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	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. See testing image for detail.

Target Details

Target:	TGFB1
Alternative Name:	TGF beta 1 (TGFB1 Products)

Target Details

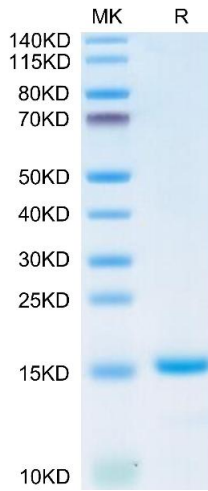
Background:	CEDLAP, DPD1, TGF beta1, TGFB, TGFB1, TGFbeta, TGF-beta-1,TGF-beta 1 (transforming growth factor beta 1) is one of three closely related mammalian members of the large TGF-beta superfamily that share a characteristic cystine knot structure. TGF-beta 1, -2 and -3 are highly pleiotropic cytokines 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.
Molecular Weight:	13.2 kDa. Due to glycosylation, the protein migrates to 15-17 kDa based on Tris-Bis PAGE result.
UniProt:	P01137
Pathways:	EGFR Signaling Pathway , Dopaminergic Neurogenesis , Cellular Response to Molecule of Bacterial Origin , Glycosaminoglycan Metabolic Process , Regulation of Leukocyte Mediated Immunity , Regulation of Muscle Cell Differentiation , Positive Regulation of Immune Effector Process , Cell-Cell Junction Organization , Production of Molecular Mediator of Immune Response , Ribonucleoside Biosynthetic Process , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process , Protein targeting to Nucleus , Autophagy , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

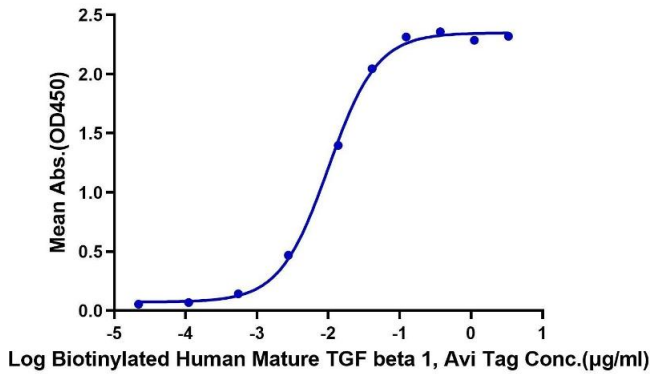
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in 50 mM Glycine, 150 mM NaCl (pH 2.5).
Buffer:	Lyophilized from 0.22µm filtered solution in 50 mM Glycine, 150 mM NaCl (pH 2.5). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

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

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



ELISA

Image 2. Immobilized Human TGF-beta RII, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human Mature TGF beta 1, Avi Tag with the EC50 of 10.0 ng/mL determined by ELISA.