Mouse Latent TGF beta 1/TGFB1 Protein

Cat. No. TG1-MM101

Description

Source	Recombinant Mouse Latent TGF beta 1/TGFB1 Protein is expressed from HEK293 with His tag at the N-Terminus.
	It contains Leu30-Ser390.
Accession	P04202
Molecular Weight	The protein has a predicted MW of 29.5/12.9 kDa. Due to glycosylation, the protein migrates to 40-50/14-15 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

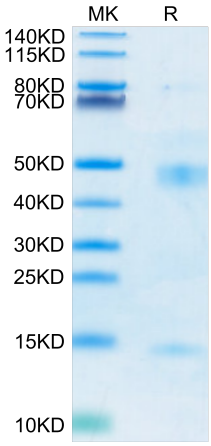
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Latent TGF beta 1 cDNA encodes a 390 amino acid precursor that contains a 29 aa signal peptide and a 361 aa proprotein. A furinlike convertase processes the proprotein to generate an Nterminal 249 aa latencyassociated peptide (LAP) and a Cterminal 112 aa mature TGF beta 1. Disulfidelinked homodimers of LAP and TGF beta 1 remain noncovalently associated after secretion, forming the small latent TGF beta 1 complex.

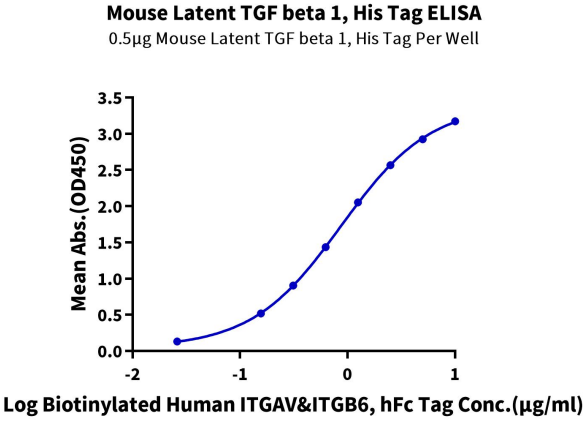
Assay Data

Bis-Tris PAGE



Mouse Latent TGF beta 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data



Immobilized Mouse Latent TGF beta 1, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB6, hFc Tag with the EC50 of 0.87μg/ml determined by ELISA.