

Human Latent TGF beta 2/TGFB2 Protein



Cat. No. TGF-HM102

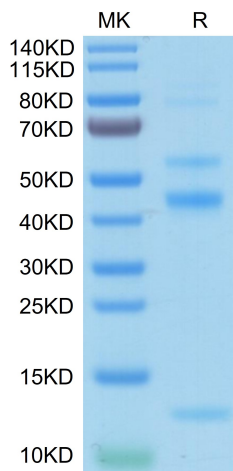
Description	
Source	Recombinant Human Latent TGF beta 2/TGFB2 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Leu21-Ser414.
Accession	P61812-1
Molecular Weight	The protein has a predicted MW of 46.6 kDa. Due to glycosylation, the protein migrates to 40-60 kDa&12-13 kDa based 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	
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 factor induces oxidative stress in HLECs.	

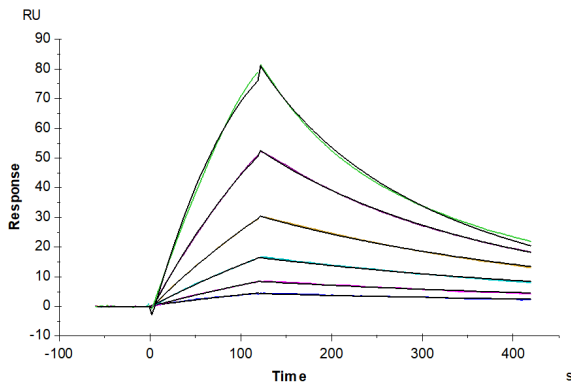
Assay Data

Bis-Tris PAGE



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

SPR Data



Human TGF-beta RII, hFc Tag captured on CM5 Chip via Protein A can bind Human Latent TGF beta 2, His Tag with an affinity constant of 2.21 µM as determined in SPR assay (Biacore T200).