

# Biotinylated Cynomolgus GARP&Latent TGF beta 1 Complex Protein



Cat. No. GAT-CM401B

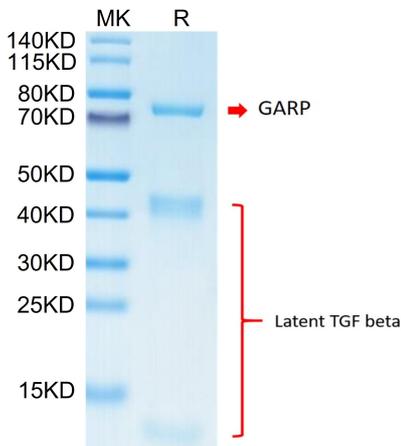
Description	
Source	Recombinant Biotinylated Cynomolgus GARP&Latent TGF beta 1 Complex Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala18-Leu628(GARP)&Leu30-Ser390(Latent TGF beta 1).
Accession	A0A2K5X2X9(GARP)&A0A2K5TJB2(Latent TGF beta 1)
Molecular Weight	The protein has a predicted MW of 70.5 kDa (GARP)&41.3 kDa (Latent TGF Beta 1). Due to glycosylation, the protein migrates to 70-80 kDa (GARP)&13 kDa&42-50 kDa (Latent TGF Beta) based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

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**  
GARP&Latent TGF Beta is a complex found on surface of many types of cells. In Tregs, GARP is involved in TCR-mediated activation of Latent TGF-β and thus promoting secretion and activation of TGF-β. Integrin αvβ8 on the surface of immune cells and other cells recognizes RGD in LAP, resulting in the release of mature TGF-β from the TGF-β&GARP complex.

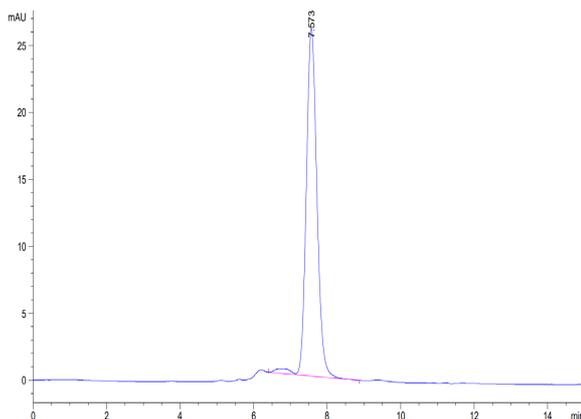
## Assay Data

### Bis-Tris PAGE



Biotinylated Cynomolgus GARP&Latent TGF beta 1 Complex on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



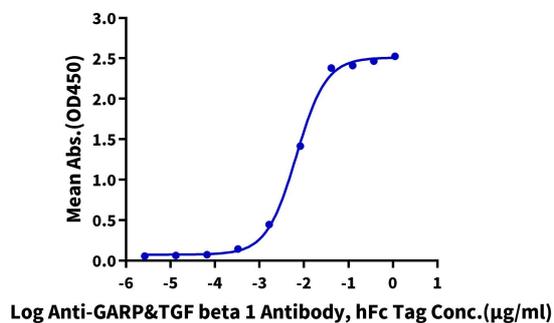
The purity of Biotinylated Cynomolgus GARP&Latent TGF beta 1 Complex is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Cynomolgus GARP&Latent TGF Beta 1 Complex, His Tag ELISA**

0.2µg Biotinylated Cynomolgus GARP&Latent TGF Beta 1 Complex, His Tag Per Well



Immobilized Biotinylated Cynomolgus GARP&Latent TGF Beta 1 Complex, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-GARP&TGF beta 1 Antibody, hFc Tag with the EC50 of 6.6ng/ml determined by ELISA.