Human GARP (S138G) &Latent TGF Beta 1 Complex Protein

Cat. No. GAT-HM103

Description

Source	Recombinant Human GARP(S138G)&Latent TGF Beta 1 Complex Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains His20-Leu628 (GARP(S138G)) & Leu30-Ser390 (Latent TGF Beta 1).
Accession	Q14392(GARP(S138G))&P01137(Latent TGF beta 1)
Molecular Weight	The protein has a predicted MW of 70.3 kDa (GARP(S138G))&41.4 kDa (Latent TGF Beta 1). Due to glycosylation, the protein migrates to 75-80 kDa (GARP(S138G))&15 kDa&42-48 kDa (Latent TGF Beta 1) 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

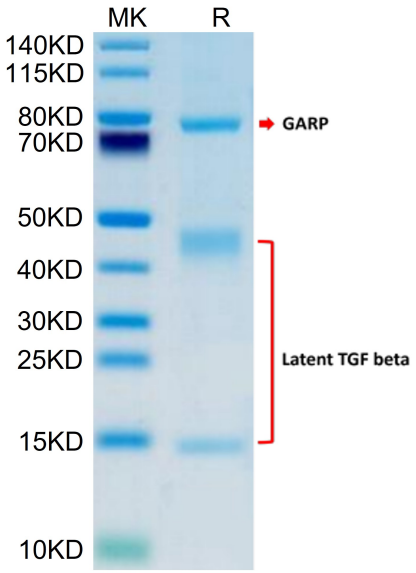
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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



Human GARP (S138G) &Latent TGF Beta 1 Complex on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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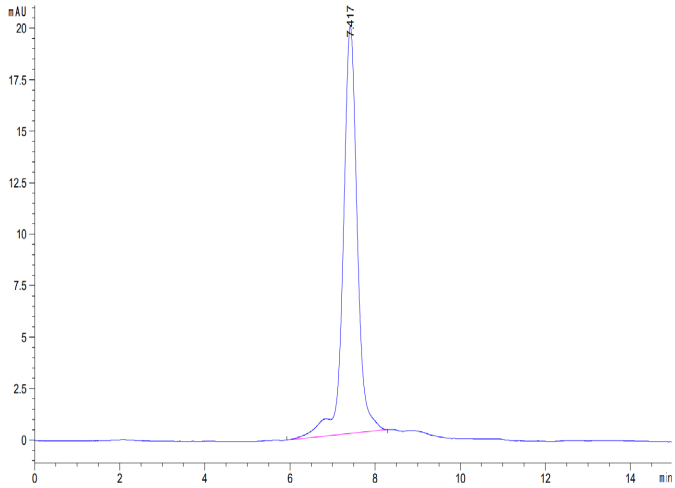
Assay Data



The purity of Human GARP (S138G) &Latent TGF Beta 1 Complex is greater than 95% as determined by SEC-HPLC.