

Human PGLYRP1 Protein

Cat. No. PGL-HM201

Description

Source	Recombinant Human PGLYRP1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln22-Pro196.
Accession	O75594
Molecular Weight	The protein has a predicted MW of 46.2 kDa. Due to glycosylation, the protein migrates to 55-60 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 > 95% as determined by HPLC

Formulation and Storage

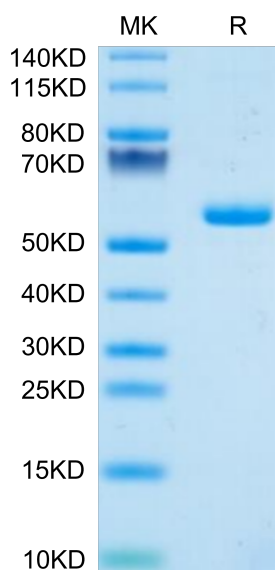
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

Innate immunity protein Tag7 (PGRP-S, PGLYRP1) can interact with the TNF α receptor, TNFR1, and block the transduction of apoptotic signals through this receptor. A complex formed between the Tag7 protein and the major heat shock protein Hsp70 can activate TNFR1 receptor and induce tumor cell death via either apoptotic or necroptotic pathway.

Assay Data

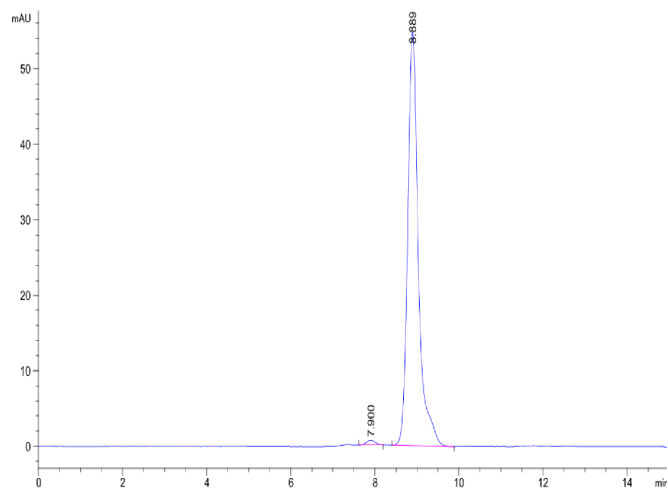
Bis-Tris PAGE



Human PGLYRP1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

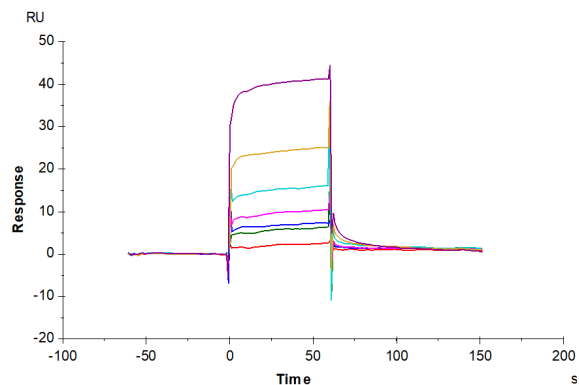
SEC-HPLC

Assay Data



The purity of Human PGLYRP1 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human PGLYRP1, hFc Tag captured on CM5 Chip via Protein A can bind Human TREM1, His Tag with an affinity constant of 17.39 μ M as determined in SPR assay (Biacore T200).