

# Human PGLYRP1 Protein

Cat. No. PGL-HM101



## Description

<b>Source</b>	Recombinant Human PGLYRP1 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln22-Pro196.
<b>Accession</b>	O75594
<b>Molecular Weight</b>	The protein has a predicted MW of 21.04 kDa. Due to glycosylation, the protein migrates to 27-37 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

## Formulation and Storage

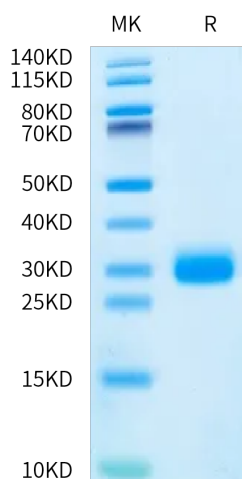
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Innate immunity protein Tag7 (PGRP-S, PGLYRP1) can interact with the TNF $\alpha$  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.

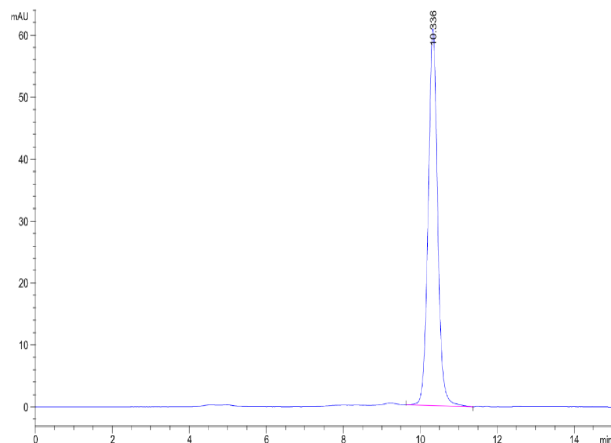
## Assay Data

### Bis-Tris PAGE



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

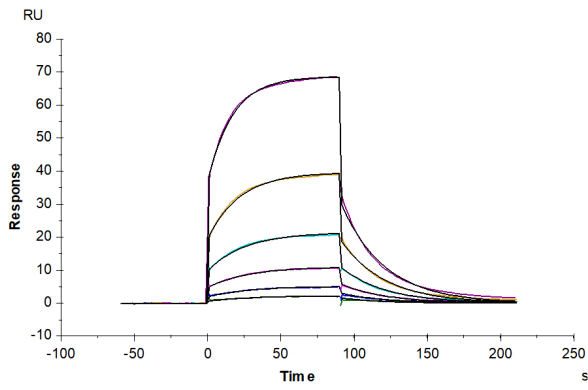
### SEC-HPLC



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

Assay Data

SPR Data



Human TREM1, His Tag immobilized on CM5 Chip can bind Human PGLYRP1, His Tag with an affinity constant of 0.54  $\mu$ M as determined in SPR assay (Biacore T200).