

Human PGLYRP1 Protein; His Tag

Product Information

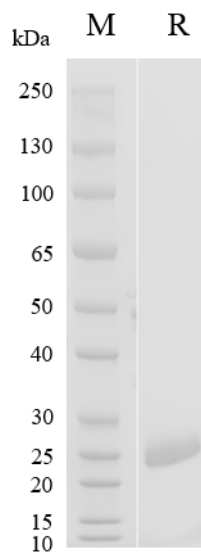
Product Name	Human PGLYRP1 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87969RP-100 / 100 μg GM-87969RP-1000 / 1 mg

Protein Information

Alternative Names	PGRP-S,PGLYRP,PGRP,TNFSF3L,PGRPSMGC126896,TAG7,Tasg7
Source	Human PGLYRP1 Protein; His Tag (GM-87969RP) is expressed from human 293 cells (HEK-293). It contains AA Gln22-Pro196 (Accession # O75594). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	20.0 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>PGLYRP1 (Peptidoglycan Recognition Protein 1) is an immune-related protein belonging to the family of peptidoglycan recognition proteins. It primarily recognizes peptidoglycan components in bacterial cell walls to initiate immune responses. It is highly expressed in neutrophils and macrophages and plays an important role in the innate immune system, helping the body quickly identify and combat bacterial infections. In addition to immune detection, PGLYRP1 also participates in regulating inflammation and maintaining tissue homeostasis.</p> <p>The mechanism of PGLYRP1 mainly involves binding to bacterial cell wall components to activate downstream immune response pathways, such as promoting the release of pro-inflammatory cytokines and chemokines, which facilitates the recruitment and activation of immune cells. Furthermore, PGLYRP1 can indirectly influence immune receptor pathways like TREM1, amplifying inflammatory responses. While activation of these signaling pathways helps defend against infections, excessive activation may also trigger inflammation-related diseases, demonstrating its complex role in immune regulation.</p>

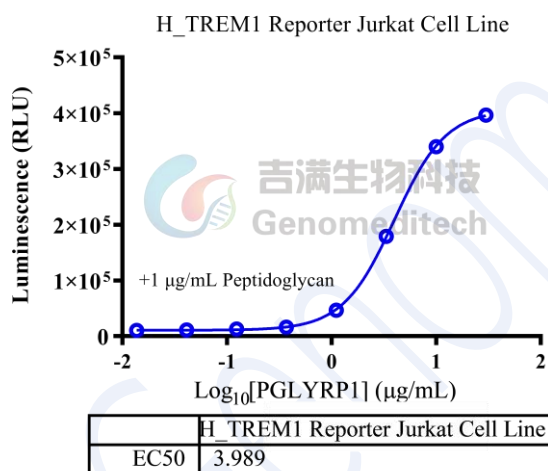
Version:4.0

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-CELL BASE



Increasing concentrations of Human PGLYRP1 Protein; His Tag (Catalog # GM-87969RP) was added into H_TREM1 Reporter Jurkat Cell Line (Catalog # GM-C15720) with 1 μg/mL Peptidoglycan and stimulates signaling pathways.