

PGLYRP1/PGRP-S active protein

Recombinant human PGLYRP1/PGRP-S protein

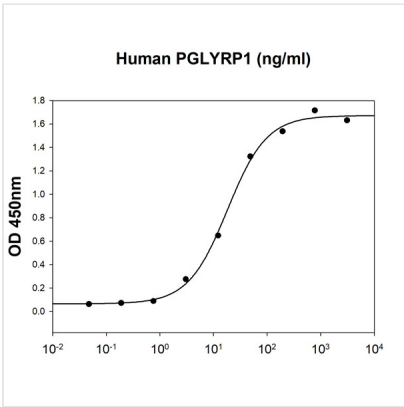
CATALOG # AAA48403	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

PGLYRP1/PGRP-S; Recombinant human PGLYRP1/PGRP-S protein; PGLYRP; PGRP; PGRP-S; PGRPS; TAG7; TNFSF3L; Peptidoglycan recognition protein 1; peptidoglycan recognition protein short; PGLYRP1/PGRP-S active protein

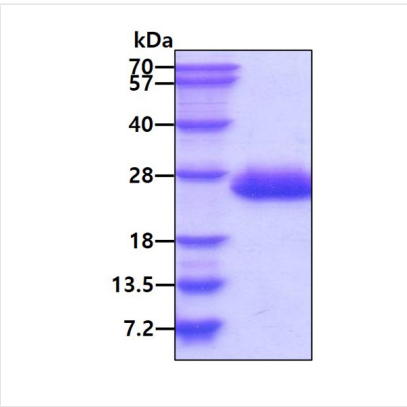
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	22-196aa
Sequence	QETED PACCSPIVPR NEWKALASEC AQHLSLPLRY VVSHTAGSS CNTPASCQQQ ARNVQHYHMK TLGWCDVGYN FLIGEDGLVY EGRGWNFTGA HSGHLWNPMS IGISFMGNYM DRVPTPQAIR AAQGLLACGV AQGALRSNYV LKGHRDVQRT LSPGNQLYHL IQNWPBYRSP
Applicable Applications for PGLYRP1/PGRP-S active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Asp
Bioactivity	Measured by its binding ability in a functional ELISA with Peptidoglycan. The ED50 range <= 30ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles



Bioactivity

Peptidoglycan is coated at 10 ug/ml (100 ul/well) can bind Human PGLYRP1. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for PGLYRP1/PGRP-S active protein	PGLYRP1, also known as peptidoglycan recognition protein 1, is an innate immunity protein that plays several important functions in antimicrobial and antitumor defense systems. It acts as a pattern receptor that binds to murein peptidoglycans of gram-positive bacteria and provides bactericidal activity. PGLYRP1 forms an equimolar complex with HSPA1A and induces programmed cell death through apoptosis and necroptosis in tumor cell lines by activating the TNFR1 receptor on the target cell membrane. This protein also interacts with S100A4 and function as a chmoattractant which induces lymphocyte movement. Recombinant human PGLYRP1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for PGLYRP1/PGRP-S active protein	Apoptosis; Proteins
References	Lang MF, et al, (2008) Neurosci Lett. 430:138-141. Sharma P., et al, (2012) Int J Biochem Mol Biol. 3:86-94. Sun Q., et al, (2014) World J Microbiol Biotechnol. 30:263-270.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4827036
NCBI GeneID	8993
NCBI Accession #	NP_005082.1
NCBI GenBank Nucleotide #	NM_005091.2
UniProt Accession #	O75594; Q4VB36
Molecular Weight	21,731 Da
NCBI Official Full Name	peptidoglycan recognition protein 1
NCBI Official Synonym Full Names	peptidoglycan recognition protein 1
NCBI Official Symbol	PGLYRP1
NCBI Official Synonym Symbols	PGRP; TAG7; PGRPS; PGLYRP; PGRP-S; TNFSF3L
NCBI Protein Information	peptidoglycan recognition protein 1; TNF superfamily, member 3 (LTB)-like (peptidoglycan recognition protein)
UniProt Protein Name	Peptidoglycan recognition protein 1
UniProt Gene Name	PGLYRP1
UniProt Synonym Gene Names	PGLYRP; PGRP; TNFSF3L; PGRP-S
UniProt Entry Name	PGRP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/pglyrp1-pgrp-s/48403>