

PGRP-S/PGLYRP1 Recombinant Protein | PGLYRP1 recombinant protein

Recombinant Human PGRP-S/PGLYRP1 Protein (His Tag), HPLC-verified

CATALOG # AAA259319	HOST HEK293 Cells	REACTIVITY Human
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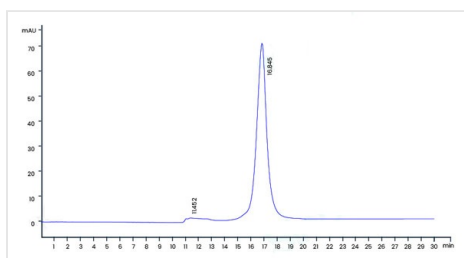
PRODUCT SYNONYMS

PGRP-S/PGLYRP1; Recombinant Human PGRP-S/PGLYRP1 Protein (His Tag); HPLC-verified; Human PGRP-S/PGLYRP1 Protein (His Tag); peptidoglycan recognition protein 1; PGLYRP Protein; Human; PGRP Protein; PGRP-S Protein; PGRPS Protein; SBB168 Protein; TAG7 Protein; TNFSF3L Protein; UNQ639/PRO1269 Protein; PGLYRP1 recombinant protein

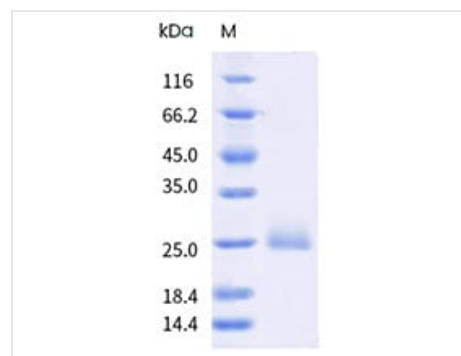
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Pro196
Tag	C-His
Predicted N Terminal	Gln 22
Endotoxin	< 1.0 EU perug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human PGLYRP1 (O75594)(Met1-Pro196) was expressed with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PGLYRP1 recombinant protein	Peptidoglycan recognition protein 1, also known as Peptidoglycan recognition protein short, PGRP-S, PGLYRP1, PGLYRP, PGRP and TNFSF3L, is a secreted protein that belongs to the N-acetylmuramoyl-L-alanine amidase 2 family. PGLYRP1/PGLYRP is highly expressed in bone marrow. It is weakly expressed in kidney, liver, small intestine, spleen, thymus, peripheral leukocyte, lung, fetal spleen and neutrophils. PGLYRP1/PGLYRP is a pattern receptor that binds to murein peptidoglycans (PGN) of Gram-positive bacteria. It has bactericidal activity towards Gram-positive bacteria. PGLYRP1/PGLYRP may kill Gram-positive bacteria by interfering with peptidoglycan biosynthesis. It binds also to Gram-negative bacteria, and has bacteriostatic activity towards Gram-negative bacteria. Peptidoglycan recognition proteins (PGRPs or PGLYRPs) are innate immunity proteins that are conserved from insects to mammals, recognize bacterial peptidoglycan, and function in antibacterial immunity and inflammation. Mammals have four PGRPs: PGLYRP1, PGLYRP2, PGLYRP3, and PGLYRP4. They are secreted proteins expressed in polymorphonuclear leukocytes (PGLYRP1), liver (PGLYRP2), or on body surfaces, mucous membranes, and in secretions (saliva, sweat)(PGLYRP3 and PGLYRP4). All PGRPs recognize bacterial peptidoglycan. The PGRPs likely play a role both in antibacterial defenses and several inflammatory diseases. They modulate local inflammatory responses in tissues (such as arthritic joints) and there is evidence for association of PGRPs with inflammatory diseases, such as psoriasis.
References	Kan. D.. e. al.,(1998). . peptidoglyca. recognitio. protei. i. innat. immunit. conserve. fro. insect. t. humans. Proc. Natl. Acad. Sci. U.S.A. 95:10078-10082.Li. C.. e. al.. (2001). Peptidoglyca. recognitio. proteins. . nove. famil. o. fou. huma. innat. immunit. patter. recognitio. molecules.J. Biol. Chem. 276:34686-34694.Clar. H.F.. e. al.,(2003). Th. secrete. protei. discover. initiativ. (SPDI). . large-scal. effor. t. identif. nove. huma. secrete. an. transmembran. proteins. . bioinformatic. assessment.Genom. Res. 13:2265-2270.

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.