PGLYRP4/PGRP-I beta Protein, Human (HEK293, His)

Cat. No.:	HY-P77137
Synonyms:	Peptidoglycan recognition protein 4; PGRP-I-beta; PGRPIB; SBBI67
Species:	Human
Source:	HEK293
Accession:	Q96LB8-1 (D18-H373)
Gene ID:	57115
Molecular Weight:	Approximately 50-72 kDa due to the glycosylation

PROPERTIES

AA Sequence	D S S W N K T Q A K Q V S E G L Q Y L F E N I S Q L T E K G L P T D V S T T V S R K A W G A E A V G C S I Q L T T P V N V L V I H H V P G L E C H D Q T V C S Q R L R E L Q A H H V H N N S G C D V A Y N F L V G D D G R V Y E G V G W N I Q G V H T Q G Y N N I S L G F A F F G T K K G H S P S P A A L S A M E N L I T Y A V Q K G H L S S S Y V Q P L L G K G E N C L A P R Q K T S L K K A C P G V V P R S V W G A R E T H C P R M T L P A K Y G I I I H T A G R T C N I S D E C R L L V R D I Q S F Y I D R L K S C D I G Y N F L V G Q D G A I Y E G V G W N V Q G S S T P G Y D D I A L G I T F M G T F T G I P P N A A A L E A A Q D L I Q C A M V K G Y L T P N Y L L V G H S D V A R T L S P G Q A L Y N I I S T W P H F K H
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCL, 100 mM NaCl, pH 8.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PGLYRP4/PGRP-I beta Protein, a pattern receptor, exhibits binding affinity to murein peptidoglycans (PGN) found in Gram-positive bacteria, showcasing bactericidal activity against this bacterial group. Its antimicrobial properties may be attributed to its interference with peptidoglycan biosynthesis, leading to the killing of Gram-positive bacteria. Additionally, PGLYRP4/PGRP-I beta demonstrates bacteriostatic activity against Gram-negative bacteria, despite also binding to this

bacterial class. As part of innate immunity, this protein plays a crucial role in recognizing and responding to bacterial pathogens. It forms homodimers connected by disulfide bonds and can heterodimerize with PGLYRP3, further expanding its functional repertoire in host defense mechanisms.

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