

## 32-4444: Recombinant Human Peptidoglycan Recognition Protein 1

**Alternative Name** Peptidoglycan recognition protein 1, Peptidoglycan recognition protein short, PGRP-  
:  
S, PGLYRP1, PGLYRP, PGRP, TNFSF3L, TAG7, PGRPS.

### Description

Source : Escherichia Coli. PGLYRP1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 22-196) containing 185 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 20.68kDa (calculated). Peptidoglycan Recognition Protein 1 (PGLYRP1) is a member of the N-acetylmuramoyl-L-alanine amidase 2 family. PGLYRP1 binds to peptidoglycan of bacteria and affects the peptidoglycan biosynthesis. PGLYRP1 displays bactericidal activity towards Gram-positive bacteria and is bacteriostatic towards Gram-negative bacteria. PGLYRP1 has a role in innate immunity. PGLYRP1 is highly expressed in the bone marrow, and weakly expressed in the kidney, liver, small intestine, spleen, thymus, peripheral leukocyte, lung, fetal spleen and neutrophils.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** PGLYRP1 filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M Acetate buffer pH-4.0.  
**Storage condition :** Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.  
**Amino Acid :** MKHHHHHHASQETEDPACCS PIVPRNEWKA LASECAQHLS LPLRYVVVSH TAGSSCNTPA  
SCQQARNVQ HYHMKTLGWC DVGYNFLIGE DGLVYEGRGW NFTGAHSGHL WNPMSIGISF  
MGNVMDRVPT PQAIRAAQGL LACGVAQGAL RSNVYLVKGHR DVQRTLSPGN QLYHLIQNWP HYRSP.

### Application Note

It is recommended to add 200µl of 0.1M Acetate buffer pH-4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely at 37°C. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited. PGLYRP1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

