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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 SCQQQARNVQ HYHMKTLGWC DVGYNFLIGE DGLVYEGRGW NFTGAHSGHL WNPMSIGISF MGNYMDRVPT PQAIRAAQGL LACGVAQGAL RSNYVLKGHR 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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.