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Recombinant human PGLYRP1/PGRP-S protein

Catalog Number: ATGP4036

PRODUCT INFORMATION

Expression system

HEK293

Domain

22-196aa

UniProt No.

075594

NCBI Accession No.

NP 005082.1

Alternative Names

PGLYRP, PGRP, PGRP-S, PGRPS, TAG7, TNFSF3L, Peptidoglycan recognition protein 1, peptidoglycan recognition protein short

PRODUCT SPECIFICATION

Molecular Weight

20.5kDa (184aa)

Concentration

0.25mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Peptidoglycan. The ED50 range \leq 30 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles

BACKGROUND



Recombinant human PGLYRP1/PGRP-S protein

Catalog Number: ATGP4036

Description

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 Histag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

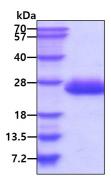
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General References

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.

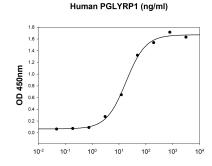
DATA

SDS-PAGE



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

Biological Activity



Peptidoglycan is coated at 10 ug/ml (100 ul/well) can bind Human PGLYRP1. The ED50 range \leq 30 ng/ml.

