

PGLYRP1/PGRP-S Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78338
Synonyms:	PGRP-S; PGLYRP1; PGLYRP; PGRP; TNFSF3L; PGRP-SMGC126894; PGRPSMGC126896; TAG7; Tasg7
Species:	Mouse
Source:	HEK293
Accession:	O88593 (F19-E182)
Gene ID:	21946
Molecular Weight:	50-55 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of PBS, 10% glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	<p>PGLYRP1/PGRP-S, an innate immunity protein, serves multifaceted roles in antimicrobial and antitumor defense systems. Functioning as a pattern receptor, it binds to murein peptidoglycans (PGN) from Gram-positive bacteria, thereby exerting bactericidal activity. Additionally, it forms an equimolar complex with heat shock protein HSPA1A, triggering programmed cell death through apoptosis and necroptosis in tumor cell lines by activating the TNFR1 receptor. Collaborating with the Ca(2+)-binding protein S100A4, it acts as a chemoattractant that induces lymphocyte movement and activates lymphocytes to eliminate virus-infected and tumor cells. The induction of cytotoxicity on monocyte surfaces requires interaction with the TREM1 receptor. This protein exhibits a homodimeric structure linked by disulfide bonds and interacts intricately with HSPA1A and HSPBP1, modulating its cytotoxic activity. These versatile functions underscore the critical involvement of PGLYRP1/PGRP-S in immune response and defense mechanisms.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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