

PGLYRP1 Protein, Mouse, Recombinant (hFc)

General Information

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| Synonyms: | PGRPSMGC126896;TNFSF3L;PGLYRP1;TAG7;PGLYRP;PGRP;PGRP-SMGC126894;PGRP-S;Tasg7 |
| Protein Construction: | Phe19-Glu182 |
| Species: | Mouse |
| Expression Host: | HEK293 Cells |
| Accession: | O88593 |
| Molecular Weight: | 45.7 kDa (predicted). Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 95% as determined by Tris-Bis PAGE |
| Endotoxin: | < 1.0 EU/ μ g of the protein as determined by the LAL method. |
| Formulation: | Supplied as 0.22 μ m filtered solution in PBS, 10% Glycerol (pH 8.0). |

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Innate immunity protein Tag7 (PGRP-S, PGLYRP1) can interact with the TNF α receptor, TNFR1, and block the transduction of apoptotic signals through this receptor. A complex formed between the Tag7 protein and the major heat shock protein Hsp70 can activate TNFR1 receptor and induce tumor cell death via either apoptotic or necroptotic pathway.

Reference

Romanova EA, et al. A 12-mer Peptide of Tag7 (PGLYRP1) Forms a Cytotoxic Complex with Hsp70 and Inhibits TNF-Alpha Induced Cell Death. Cells. 2020 Feb 20;9(2):488. doi: 10.3390/cells9020488. PMID: 32093269; PMCID: PMC7072780.

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