

Recombinant Human PRF1 Protein, His-Tagged

Cat. No. PRF1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRF1 Protein, His-tagged was expressed in E. coli cell
Species	Human
Source	E.coli
ProteinLength	22-555 a.a.
Description	This gene encodes a protein with structural similarities to complement component C9 that is important in immunity. This protein forms membrane pores that allow the release of granzymes and subsequent cytolysis of target cells. Whether pore formation occurs in the plasma membrane of target cells or in an endosomal membrane inside target cells is subject to debate. Mutations in this gene are associated with a variety of human disease including diabetes, multiple sclerosis, lymphomas, autoimmune lymphoproliferative syndrome (ALPS), aplastic anemia, and familial hemophagocytic lymphohistiocytosis type 2 (FHL2), a rare and lethal autosomal recessive disorder of early childhood.
Applications	ELISA, EIA, protein-protein interaction studies, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array
Purification	His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
Form	Liquid

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Endotoxin	Not determined
Purity	> 90%
Expressed Region	Pro22-Trp555
Conjugation/Tag Notes	N-terminal 6x histidine tag
Storage Buffer	Supplied as a 0.45 um filtered solution in 100 mM NaH ₂ PO ₄ (pH 7.4), 0.3 M NaCl, 8 M urea.
Storage	Upon arrival, the protein may be stored for 2 weeks at 4 °C. For long term storage, it is recommended to store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles.
Concentration	Lot specific (see the label on the vial)
Purity determined by	SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
Molecular Mass	59.2 kDa
Usage	This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.
Preservative	None
Shipping	Ice packs

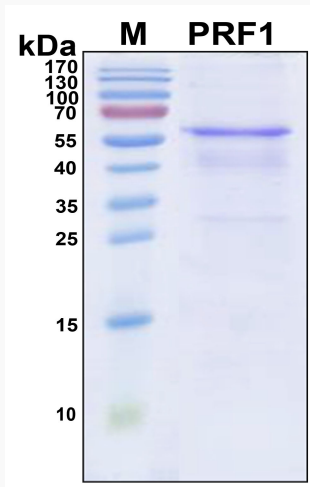
GENE INFORMATION

Gene Name	PRF1 perforin 1 [Homo sapiens (human)]
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Official Symbol	PRF1
Synonyms	Perforin-1, P1, Cytolysin, Lymphocyte pore-forming protein, PFP, Perforin 1, Preforming Protein, PFN1, Lymphocyte Pore Forming Protein, FLH2, HPLH2, Perforin
Gene ID	5551
mRNA Refseq	NM_001083116.3
Protein Refseq	NP_001076585.1
UniProt ID	P14222
MIM	170280
SDS-PAGE Image	 The SDS-PAGE image displays a gel with two lanes. The first lane, labeled 'M', contains molecular weight markers with bands at 170, 130, 100, 70, 55, 40, 35, 25, 15, and 10 kDa. The second lane, labeled 'PRF1', shows a single prominent band at approximately 70 kDa, corresponding to the Perforin-1 protein.