

Recombinant Human perforin 1 Protein, His tagged

Cat. No. PRF1-51H Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human perforin 1 (pore forming protein) (PRF1), transcript variant 1, Asp351-End, with N-terminal His tag, expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	351-555aa
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.
Tag	N-His
Molecular Mass	23.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Storage Buffer	50 mM Tris-HCl, pH 8.0, 8 M urea
Concentration	> 0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

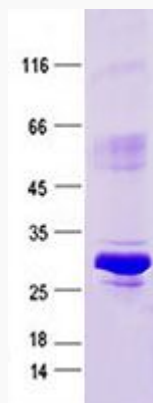
Gene Name	PRF1 perforin 1 (pore forming protein) [Homo sapiens (human)]
Official Symbol	PRF1
Synonyms	PRF1; perforin 1 (pore forming protein); perforin-1; HPLH2; P1; Perforin; perforin 1 (preforming protein); PFP; cytolyisin; lymphocyte pore forming protein; lymphocyte pore-forming protein; FLH2; PFN1; MGC65093
Gene ID	5551
mRNA Refseq	NM_005041
Protein Refseq	NP_005032
MIM	170280
UniProt ID	P14222

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Purified recombinant protein PRF1 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.



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