

## Recombinant Human perforin 1 Protein, His tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	351-555aa
<b>Description</b>	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.
<b>Tag</b>	N-His
<b>Molecular Mass</b>	23.1 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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

## GENE INFORMATION

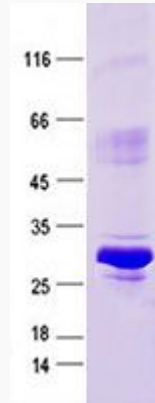
<b>Gene Name</b>	PRF1 perforin 1 (pore forming protein) [ Homo sapiens (human) ]
<b>Official Symbol</b>	PRF1
<b>Synonyms</b>	PRF1; perforin 1 (pore forming protein); perforin-1; HPLH2; P1; Perforin; perforin 1 (preforming protein); PFP; cytolysin; lymphocyte pore forming protein; lymphocyte pore-forming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

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



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