

Recombinant Full Length Human PRF1 Protein

Cat. No. PRF1-392HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Perforin with a proprietary N-terminal tag, molecular weight 84.85 kDa inclusive of tag
Species	Human
Source	In Vitro Cell Free System
ProteinLength	534 amino acids
Description	The protein encoded by this gene has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in this gene cause familial hemophagocytic lymphohistiocytosis type 2 (HPLH2), a rare and lethal autosomal recessive disorder of early childhood. Alternative splicing results in multiple transcript variants encoding the same protein.
Form	Liquid
Molecular Mass	84.850kDa inclusive of tags
AA Sequence	PCHTAARSECKRSHKVFPGAWLAGEGVDVTSLLRRSGSFPV DTQRFLRPDGTCTLC ENALQEGTLQRLPLALTNWRAQGSQ CQRHVTRAKVSSTEAVARDAARSIRNDWKV GLDVTPKPTS NVHVSVAGSHSQAANFAAQKTHQDQYSFSTDTVECRFYSF HVVHT

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PPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGT HFIRAVELGGRISALTALRTCEL
 ALEGLTDNEVEDCLTVE AQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERHS
 EVVGGHHTSINDLLFGIQAGPEQYSAWVNSLPGSPGLVDY TLEPLHVLLDSQDPRR
 EALRRALSQYLTDRARWRDCSRPC PPGRQKSPRDPCQCVCHGSAVTTQDCCPRQ
 RGLAQLEVTF IQAWGLWGDWFTATDAYVKLFLGGQELRTSTVWDNNNPIW SVRL
 DFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAP KSGSHEVRCNLNHGHLKF
 RYHARCLPHLGGGTCLDYVPQM LLGEPGPNRSGAVW

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name [PRF1 perforin 1 \(pore forming protein\) \[Homo sapiens \]](#)

Official Symbol [PRF1](#)

Synonyms PRF1; perforin 1 (pore forming protein); perforin-1; HPLH2; P1; Perforin; perforin 1 (preforming protein); PFP

Gene ID [5551](#)

mRNA Refseq [NM_001083116](#)

Protein Refseq [NP_001076585](#)

MIM [170280](#)

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UniProt ID

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