

# Recombinant Full Length Human PRF1 Protein

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human Perforin with a proprietary N-terminal tag, molecular weight 84.85 kDa inclusive of tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 534 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 84.850kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | PCHTAARSECKRSHKFVPGAWLAGEGVDVTSLLRRSGSFPV DTQRFLRPDGTCTLC<br>ENALQEGTLQRLPLALTNWRAQGSG CQRHVTRAKVSSTEAVARDAARSIRNDWKV<br>GLDVTPKPTS NVHVSVAGSHSQAANFAAQKTHQDQYSFSTDTVECRFYSF HVVHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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

**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

P14222

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