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 cytolysis. 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	PCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRRSGSFPV DTQRFLRPDGTCTLC ENALQEGTLQRLPLALTNWRAQGSG CQRHVTRAKVSSTEAVARDAARSIRNDWKV 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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