

Recombinant Full Length Human PRF1

Cat. No. PRF1-30288TH **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	Wheat Germ
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.
Molecular Weight	84.850kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRRSGSFPV DTQRFLRPDGTCTLC ENALQEGTLQRLPLALTNWRAQGS CQRHVTRAKVSSTEAVARDAARSIRNDWKV GLDVTPKPTS NVHVS VAGSHSQAANFAAQKTHQDQYSFSTDTVECRFYF HVVHT PPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGT HFIRAVELGGRISALTALRTCEL ALEGLTDNEVEDCLTVE AQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERHS EVVGGHHTSINDLLFGIQAGPEQYSAWVNSLPGSPGLVDY TLEPLHVLLDSQDPRR EALRRALSQYLTDRARWRDCSRPC PPGRQKSPRDPCQCVCHGSAVTTQDCCPRQ RGLAQLEVTF IQAWGLWGDWFTATDAYVKLFLGGQELRTSTVWDNNNPIW SVRL DFGDVLLATGGPLRLQVWDQDSGRDDLLGTCDQAP KSGSHEVRCNLNHGHLKF RYHARCLPHLGGGTCLDYVPQM LLGEPPGNRSGAVW
Sequence Similarities	Belongs to the complement C6/C7/C8/C9 family.Contains 1 C2 domain.Contains 1 EGF-like domain.Contains 1 MACPF domain.

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

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MIM	170280
Uniprot ID	P14222
Chromosome Location	10q22
Pathway	Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Apoptosis, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem;
Function	calcium ion binding; protein binding; wide pore channel activity;

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