

Recombinant Human PRF1

Cat. No. PRF1-29996TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Perforin with proprietary tag, 36.08kDa.
Species	Human
Source	Wheat Germ
ProteinLength	95 amino acids
Description	<p>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.</p>
Molecular Weight	36.080kDa inclusive of tags
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid
Purity	Proprietary Purification

 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 buffer	pH: 8.00 Constituents:0.31% Glutathione, 0.79% Tris HCl Note: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	WSVRLDFGDVLLATGGPLRLQVWDQDSGRDDLLGTCDQAPKSGSHEVRCNLNH GHLKFRYHARCLPHLGGGTCLDYVPQMLLGEPPGNRSGAVW
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
MIM	170280
Uniprot ID	P14222
Chromosome Location	10q22

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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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