Recombinant Human Perforin 1 Protein

Cat. No. PRF1-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human perforin 1 (PRF1) (aa 32-316) without tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	32-316 aa
Description	This gene encodes a protein with structural similarities to complement component C9 that is important in immunity. This protein forms membrane pores that allow the release of granzymes and subsequent cytolysis of target cells. Whether pore formation occurs in the plasma membrane of target cells or in an endosomal membrane inside target cells is subject to debate. Mutations in this gene are associated with a variety of human disease including diabetes, multiple sclerosis, lymphomas, autoimmune lymphoproliferative syndrome (ALPS), aplastic anemia, and familial hemophagocytic lymphohistiocytosis type 2 (FHL2), a rare and lethal autosomal recessive disorder of early childhood.
Form	Lyophilized
Molecular Mass	62 kDa
Purity	≥ 95%

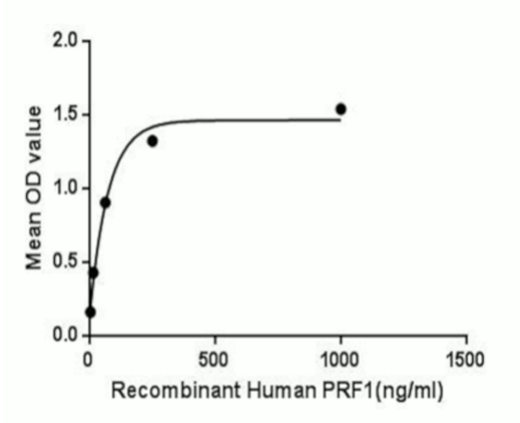
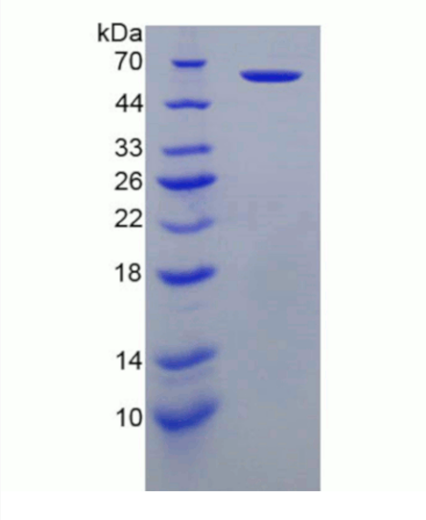
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable at 2-8 centigrade for one month. Stable at -80 centigrade for up to 12 months.
Storage	Short Term Storage: +4 centigrade Long Term Storage: -80 centigrade Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80 centigrade.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH 8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Shipping	Blue Ice

GENE INFORMATION

Gene Name	PRF1 perforin 1 [Homo sapiens (human)]
Official Symbol	PRF1
Synonyms	PRF1; perforin 1; P1; PFP; HPLH2; perforin-1; cytolysin; lymphocyte pore-forming protein; perforin 1 (pore forming protein)
Gene ID	5551
mRNA Refseq	NM_005041
Protein Refseq	NP_005032
MIM	170280
UniProt ID	P14222

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

Activity	 Dose Dependent Binding Activity of PRF1 with CRT. A binding ELISA was performed to detect interaction with Calreticulin (CRT), an interactor of PRF1. PRF1 was serially diluted in PBS and incubated in CRT-coated wells. The binding activity of PRF1 and CRT occurs in a dose dependent manner.
SDS-PAGE	 SDS-PAGE of Active Recombinant PRF1, Human

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