

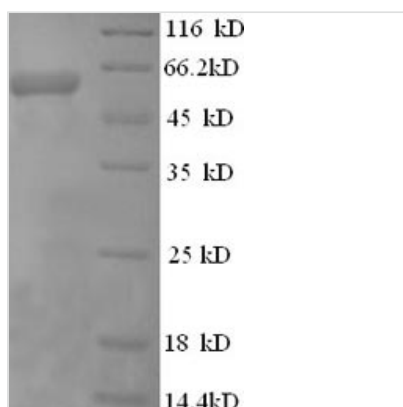


Recombinant Human Perforin-1 (PRF1)

Product Code	CSB-EP018668HU
Relevance	Plays a key role in secretory granule-dependent cell death, and in defense against virus-infected or neoplastic cells. Plays an important role in killing other cells that are recognized as non-self by the immune syst, e.g. in transplant rejection or some forms of autoimmune disease. Can insert into the mbrane of target cells in its calcium-bound form, oligomerize and form large pores. Promotes cytolysis and apoptosis of target cells by facilitating the uptake of cytotoxic granzymes.
Abbreviation	Recombinant Human PRF1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P14222
Alias	Cytolysin;Lymphocyte pore-forming protein ;PFP
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	<p> PCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRRSGSFVDTQRFLRPDGT CTLCENALQEGTLQRLPLALTNWRAQGSGCQRHVTRAKVSSTEAVARDAARS IRNDWKVGLDVTPKPTSNVHVSAGSHSQAANFAAQKTHQDQYSFSTDVTEC RFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIRAVELG GRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACEEKKKK HKMTASFHQTYRERHSEVVGGHHTSINDLLFGIQAGPEQYSAWVNSLPGSPG LVDYTLLEPLHVLLDSQDPRREALRRALSQYLTDRARWRDCSRPCPPGRQKSP RDPCQCVCCHGSAVTTQDCCPRQRGLAQLEVTFIQAWGLWGDWFTATDAYVK LFFGGQELRTSTVWDNNNPIWSVRLDFGDVLLATGGPLRLQVWDQDSGRDD DLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARCLPHLGGGTCLDYVPQMLL GEPPGNRSGAVW </p>
Research Area	Immunology
Source	E.coli
Target Names	PRF1
Expression Region	22-555aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	75.2kDa
Protein Length	Full Length of Mature Protein



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Discover our Recombinant Human PRF1, a vital research tool for scientists exploring the functions and implications of Perforin-1 in immunology. This protein, also known as P1, Cytolysin, and Lymphocyte pore-forming protein, plays a crucial role in the immune system by facilitating the release of cytotoxic granules from cytotoxic T lymphocytes and natural killer cells, leading to the destruction of targeted cells.

Our Recombinant Human PRF1 is the full length of mature protein (22-555aa), expressed in *E. coli* to ensure a consistent and reliable source for your research requirements. The protein features an N-terminal 6xHis-SUMO tag, enabling easy purification and detection. With a purity greater than 90% as determined by SDS-PAGE and available in both liquid and lyophilized powder forms, this high-quality recombinant protein provides the accuracy and performance necessary for your immunology research.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.