



Recombinant Human Perforin-1 (PRF1)

Product Code	CSB-MP018668HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P14222
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	<p>PCHTAARSE CKRSHKFVPG AWLAGEGVDV TSLRRSGSFP VDTQRFLRPD GTCTLCENAL QEGTLQRLPL ALTNWRAQGS GCQRHVTRAK VSSTEAVARD AARSIRNDWK VGLDVTPKPT SNVHVSVAGS HSQAANFAAQ KTHQDQYSFS TDTVECRFYS FHVVHTPPLH PDFKRALGDL PHHFNASTQP AYLRLLISNYG THFIRAVELG GRISALTALR TCELALEGLT DNEVEDCLTV EAQVNIHIG SISAEAKACE EKKKKHKMTA SFHQTYRERH SEVVGHHHTS INLLFGIQA GPEQYSAWVN SLPGSPGLVD YTLEPLHVLL DSQDPRREAL RRALSQYLTD RARWRDCSRP CPPGRQKSPR DPCQCVCHGS AVTTQDCCPR QRGLAQLVET FIQAWGLWGD WFTATDAYVK LFFGGQELRT STVWDNNNPI WSVRLDFGDV LLATGGPLRL QVWDQDSGRD DDLLGTCDQA PKSGSHEVRC NLNHGHLKFR YHARCLPHLG GGTCLDYVPQ MLLGEPGGR SGAVW</p>
Source	Mammalian cell
Target Names	PRF1
Protein Names	Recommended name: Perforin-1 Short name= P1 Alternative name(s): Cytolysin Lymphocyte pore-forming protein Short name= PFP
Expression Region	22-555
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein 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.
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.