



# Recombinant Human Perforin-1 (PRF1)

<b>Product Code</b>	CSB-MP018668HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P14222
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<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 MLLGEPPGNR  SGAVW</p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PRF1
<b>Protein Names</b>	Recommended name: Perforin-1 Short name= P1 Alternative name(s): Cytolysin Lymphocyte pore-forming protein Short name= PFP
<b>Expression Region</b>	22-555
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	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.

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**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.