



Recombinant Mouse Perforin-1 (Prf1)

Product Code	CSB-EP018668MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P10820
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	PCYTATRSEC KQKHKFVPGV WMAGEGMDVT TLRRSGSFPV NTQRFLRPDR TCTLCKNSLM RDATQRLPVA ITHWRPHSSH CQRNVAAAKV HSTEGVAREA AANINNDWRV GLDVNPRPEA NMRASVAGSH SKVANFAAEK TYQDQYNFNS DTVECRMYSF RLVQKPPLHL DFKKALRALP RNFNSSTEHA YHRLISSYGT HFITAVDLGG RISVLTALRT CQLTLNGLTA DEVGDCLNVE AQVSIQAQAS VSSEYKACEE KKKQHKMATS FHQTYRERHV EVLGGPLDST HDLLFGNQAT PEQFSTWTAS LPSNPGLVDY SLEPLHTLLE EQNPKREALR QAISHYIMSR ARWQNC SRPC RSGQHKSSHD SCQCECQDSK VTNQDCCPRQ RGLAHLVVS N FRAEHLWGDY TTATDAYLKV FFGGQEFRTG VWVNNNNPRW TDKMDFENVL LSTGGPLRVQ VWDADYGWDD DLLGSCDRSP HSGFHEVTCE LNHGRVKFSY HAKCLPHLTG GTCLEYAPQG LLGDPPGNRS GAVW
Source	E.coli
Target Names	Prf1
Protein Names	Recommended name: Perforin-1 Short name= P1 Alternative name(s): Cytolysin Lymphocyte pore-forming protein
Expression Region	21-554
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.