

## Recombinant Mouse Perforin-1(Prf1)

Catalog No: #AP74168

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## Description

Product Name	Recombinant Mouse Perforin-1(Prf1)
Host Species	E.coli
Species Reactivity	Ms
Target Name	Prf1
Other Names	Short name: P1 Alternative name(s): Cytolysin Lymphocyte pore-forming protein
Accession No.	Uniprot ID: P10820
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GeneID	18646;
SDS-PAGE MW	63.98kDa
Target Length	Full Length,21-554aa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	PCYTATRSECKQKHKFVPGVWMAGEGMDVTTLRRSGSFPVNTQRFLRPDRCTCLCKNSLMRDATQRLPVAI THWRPHSSHCQRNVAAAKVHSTEGVAREAAANINNDWRVGLDVNPRPEANMRASVAGSHSKVANFAAEKT YQDQYNFNSDTECRMYSFRLVQKPPLHLDFKKALRALPRNFNSSTEHAYHRLISSYGTHFITAVDLGGRI SVLTALRTCQLTLNGLTADEVGDCLNVEAQVSIQAQASVSSEYKACEEKKKQHKMATSFSHQTYRERHVEVLGG PLDSTHDLLFGNQATPEQFSTWTASLPSNPLVDYSLEPLHTLLEEQNPKREALRQAISHYIMSRARWQNC SRPCRSGQHKSSHSDSCQCECQDSKVTNQDCCPRQRGLAHLVSNFRAEHLWGDYTTATDAYLKVFFGGQEFRT GVVWNNNNPRWTDKMDFENVLLSTGGPLRVQVWDADYGWDDDLLGSCDRSPHSGFHEVTCELNHGRVKF SYHAKCLPHLTGGTCLEYPQGLLDPPGNRSGAVW
Formulation	Tris-based buffer,50% glycerol
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.

## Application Details

Greater than 80% as determined by SDS-PAGE.

## Background

Plays a key role in secretory granule-dependent cell death, and in defense against virus-infected or neoplastic cells. Can insert into the membrane 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.

## References

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“The molecular basis for perforin oligomerization and transmembrane pore assembly.” Baran K., Dunstone M., Chia J., Ciccone A., Browne K.A., Clarke C.J.P., Lukyanova N., Saibil H., Whisstock J.C., Voskoboinik I., Trapani J.A. *Immunity* 30:684-695(2009)

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Note: This product is for in vitro research use only