

# Recombinant Human Perforin-1(PRF1)

Catalog No: #AP70659

Package Size: #AP70659-1 20ug #AP70659-2 100ug #AP70659-3 1mg

## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Product Name          | Recombinant Human Perforin-1(PRF1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen Description | Expression Region:22-555aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Other Names           | Cytolysin;Lymphocyte pore-forming protein ;PFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Accession No.         | P14222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Calculated MW         | 75.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tag Info              | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Target Sequence       | <p>PCHTAARSECKRSHKFPVGAWLAGEGVDVTSLSRRSGSFVDTQRFRLPDGTCTLCENALQEGTLQRLPLALT</p> <p>NWRAQGSGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPTKPTSNVHVSVAGSHSQAANFAAQKTH</p> <p>QDQYSFSTDTVECFYSFHVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIRAVELGGRISALT</p> <p>ALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERHSEVVGGHHTSI</p> <p>NDLLFGIQAGPEQYSAWVNSLPGSPGLVDYTLPLHLVLLDSQDPRREALRRALSQYLTDRARWRDCSRPCPP</p> <p>GRQKSPRDPCQCVCCHSAVTTQDCCPRQRGLAQLEVTFIQAWGLWGDWFTATDAYVKLFFGGQELRTSTV</p> <p>WDNNNPIWSVRLDFGDVLLATGGPLRLQVWDQDSGRDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHA</p> <p>RCLPHLGGGTCLDYVPQMLLGEPPGNRSGAVW</p> |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Storage               | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.</p> <p>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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.</p>                                                                                                                                                                                                              |

## Background

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.

## References

The DNA sequence and comparative analysis of human chromosome 10.Deloukas P., Earthrowl M.E., Grafham D.V., Rubenfield M., French L., Steward C.A., Sims S.K., Jones M.C., Searle S., Scott C., Howe K., Hunt S.E., Andrews T.D., Gilbert J.G.R., Swarbreck D., Ashurst J.L., Taylor A., Battles J. , Bird C.P., Ainscough R., Almeida J.P., Ashwell R.I.S., Ambrose K.D., Babbage A.K., Bagguley C.L., Bailey J., Banerjee R., Bates K., Beasley H., Bray-Allen S., Brown A.J., Brown J.Y., Burford D.C., Burrill W., Burton J., Cahill P., Camire D., Carter N.P., Chapman J.C., Clark S.Y., Clarke G., Clee C.M., Clegg S., Corby N., Coulson A., Dhami P., Dutta I., Dunn M., Faulkner L., Frankish A., Frankland J.A., Garner P., Garnett J., Gribble S., Griffiths C., Grocock R., Gustafson E., Hammond S., Harley J.L., Hart E., Heath P.D., Ho T.P., Hopkins B., Horne J., Howden P.J., Huckle E., Hynds C., Johnson C., Johnson D., Kana A., Kay M., Kimberley A.M., Kershaw J.K., Kokkinaki M., Laird G.K., Lawlor S., Lee H.M., Leongamornlert

D.A., Laird G., Lloyd C., Lloyd D.M., Loveland J., Lovell J., McLaren S., McLay K.E., McMurray A., Mashreghi-Mohammadi M., Matthews L., Milne S., Nickerson T., Nguyen M., Overton-Larty E., Palmer S.A., Pearce A.V., Peck A.I., Pelan S., Phillimore B., Porter K., Rice C.M., Rogosin A., Ross M.T., Sarafidou T., Sehra H.K., Shownkeen R., Skuce C.D., Smith M., Standing L., Sycamore N., Tester J., Thorpe A., Torcasso W., Tracey A., Tromans A., Tsolas J., Wall M., Walsh J., Wang H., Weinstock K., West A.P., Willey D.L., Whitehead S.L., Wilming L., Wray P.W., Young L., Chen Y., Lovering R.C., Moschonas N.K., Siebert R., Fechtel K., Bentley D., Durbin R.M., Hubbard T., Doucette-Stamm L., Beck S., Smith D.R., Rogers J. Nature 429:375-381(2004) Research Topic: Immunology

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.