

Perforin-1/PRF1 Protein, Human, Recombinant (His & MBP)

General Information

Synonyms: Perforin-1;PRF1;Lymphocyte pore-forming protein (PFP);P1;PFP;Cytolysin

Protein Construction: 22-555 aa

Species: Human

Expression Host: Baculovirus Insect Cells

Accession: P14222

Molecular Weight: 103.2 kDa (predicted)

AA Sequence: PCHTAARSECKRSHKFVPGAWLAGEVDVTSLRRSGSFPVDTQRFLRPDGTCTLCENALQEGTLQRLPLALTN
WRAQSGSGCQRHVTRAKVVSSTEAVARDAARSIRNDWKVGLDVTPKPTSNVHVSVAGSHSQAANFAAQKTH
QDQYSFSTDTVECRFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIRAVELGGRISALT
ALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERHSEVVGHHSTI
NDLLFGIQAGPEQYSAWVNSLPGSPGLVDYTLLEPLHVLLDSQDPRREALRRALSQYLTDRARWRDCSRPCPP
GRQKSPRDPCQCVCHGSAVTTQDCCPRQRGLAQLEVTFIQAWGLWGDWFTATDAYVKLFFGGQELRTSTV
WDNNNPIWSVRLDFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYH
ARCLPHLGGGTCLDYVPQMLLGEPPGNRSGAVW

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Pore-forming protein that 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 system, e.g. in transplant rejection or some forms of autoimmune disease. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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