

Recombinant *P. multocida* toxA Protein, his-tagged

Cat. No. toxA-001P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is derived from a recombinant <i>P. multocida</i> ToxA with His6-tag at N-terminal expressed in <i>E. coli</i> .
Species	<i>P. multocida</i>
Source	<i>E. coli</i>
Description	Pasteurella multocida toxin (PMT) is produced by a gram-negative bacillus, Pasteurella multocida. PMT activates the Gq and G12/13 dependent signaling pathways. Gq and G12/13 are alpha subunits of the GTP trimer bound protein of animal cells. It does not activate the highly related G11-dependent pathways. This toxin binds to a ganglioside-type cell surface receptor, acts intracellularly after having been internalized through an endocytic pathway, and has pleiotropic effects on cell physiology. Therefore, it does not function on receptor-deficient cells or cells defective in the endocytosis pathway.
Form	50% glycerol, 5mM Tris-HCl (pH7.5), 0.1M NaCl
Molecular Mass	145 kDa
Purity	More than 90% purity by SDS-PAGE (CBB staining)
Applications	1) For the studies on the GTP trimer bound protein- dependent signaling pathway. 2) As a PMT antigen for immunological assays such as ELISA, western blotting and dot blotting.

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Storage

Ship at 4centigrade or -20centigrade and store at -20centigrade (or -80centigrade for long period).

Warning

Wear safety glasses, protective clothing, and rubber or latex gloves. and when handling hypodermic needles avoid inadvertent selfinoculation. Do not pipette by mouth. Avoid inhalation of this product. This product is to be used by skilled personnel in a laboratory setting only. Good laboratory technique should be employed. This product is for research purposes only. It is not for use in humans and is not to be used as a diagnostic agent.

GENE INFORMATION
Gene Name

[Dermonecrotic toxin](#)

Official Symbol

[toxA](#)

Synonyms

toxA; dermonecrotic toxin

Gene ID

[EF441531.1](#)

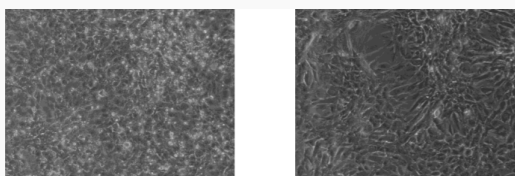
Protein Refseq

[149228009](#)

UniProt ID

[P17452](#)

Assay of Biological activity of PMT:
Mouse embryonic cells (Swiss 3T3) were treated with PMT at 10 ng/ml at 37centigrade for 18



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h.
Left:
untreated cells.
Right: Treated cells.
Foci formation by
aggregation of cells
was observed.

SDS-polyacrylamide
gel electrophoresis
of PMT

