

## Recombinant Bordetella Pertussis PTXA Protein (35-269 aa), His-tagged

**Cat. No.** PTXA-1609B    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Bordetella Pertussis (strain Tohama I/ATCC BAA-589/NCTC 13251) PTXA Protein (35-269 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.                                                                                                                                                                                                                             |
| <b>Species</b>          | Bordetella Pertussis                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 35-269 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | S1 is an NAD-dependent ADP-ribosyltransferase, which plays a crucial role in the pathogenesis of B.pertussis causing disruption of normal host cellular regulation. It catalyzes the ADP-ribosylation of a cysteine in the alpha subunit of host heterotrimeric G proteins. In the absence of G proteins it also catalyzes the cleavage of NAD <sup>+</sup> into ADP-ribose and nicotinamide. It irreversibly uncouples the G-alpha GTP-binding proteins from their mbrane receptors. |
| <b>Form</b>             | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 28.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | DDPPATVYRYDSRPPEDVFQNGFTAWGNNDNVLDHLTGRSCQVGSSNSAFVSTSS<br>SRRYTEVYLEHRMQEAVEAERAGRGTGHFIGYIYEV RADNNFYGAASSYFEYVDY                                                                                                                                                                                                                                                                                                                                                                   |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>           GDNAGRILAGALATYQSEYLAHRRIPPENIRRVTRVYHNGITGETTTTEYSNARYVSQ<br/>           QTRANPNPYTSRRSVASIVGTLVRMAPVIGACMARQAESSEAMAAWSEERAGEAMV<br/>           LVYYESIAYSF         </p>                                                                                                                            |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |

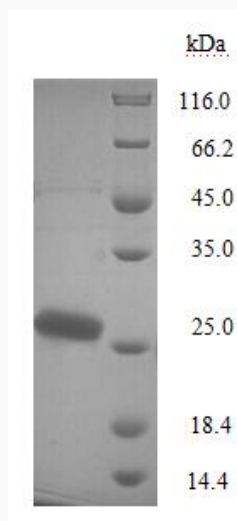
## GENE INFORMATION

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">ptxA pertussis toxin subunit 1 [ Bordetella pertussis Tohama I ]</a>            |
| <b>Official Symbol</b> | <a href="#">PTXA</a>                                                                        |
| <b>Synonyms</b>        | ptxA; Islet-activating protein S1; IAP S1NAD-dependent ADP-ribosyltransferase (EC:2.4.2.-); |
| <b>Gene ID</b>         | <a href="#">2665068</a>                                                                     |
| <b>Protein Refseq</b>  | <a href="#">NP_882282</a>                                                                   |
| <b>UniProt ID</b>      | <a href="#">P04977</a>                                                                      |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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