

# Recombinant Bordetella pertussis Serotype 2 fimbrial subunit(fim2)

Catalog No: #AP71120

Package Size: #AP71120-1 20ug #AP71120-2 100ug #AP71120-3 1mg

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## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Recombinant Bordetella pertussis Serotype 2 fimbrial subunit(fim2)                                                                                                                                                                                                                                                                                                                              |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:27-207aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                             |
| Accession No.         | P05788                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 23.2 kDa                                                                                                                                                                                                                                                                                                                                                                                        |
| Tag Info              | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                         |
| Target Sequence       | DDGTIVITGTITDTCVIEDPSGPNHTKVVLQPKISKALKANGDQAGRTPFIILKDCPSSLGNGVKAYFEPGPT<br>TDYSTGDLRAYKVMVYATNPQTQLSNITAATEAQGVQVRISNLNDSKITMGANEATQQAAGFDPEVQTGGTSR<br>VTMRYLASVYKKNKDVEASAITTYVGFSVVYP                                                                                                                                                                                                      |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>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. |

## Background

Bordetella pertussis is the causative agent of whooping cough. An essential step in the disease process is the attachment of the bacteria to the ciliated epithelium of the respiratory tract, enabling the organism to resist normal host-clearance mechanisms. It is unclear which bacterial cell surface component are responsible for adherence but the fimbriae of B.pertussis are prime candidates for being involved in this process.

## References

Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica.Parkhill J., Sebahia M., Preston A., Murphy L.D., Thomson N.R., Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L., Cerdono-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A., Achtman M., Atkin R., Baker S. , Basham D., Bason N., Cherevach I., Chillingworth T., Collins M., Cronin A., Davis P., Doggett J., Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K., Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C., Rabbinoiwisch E., Rutter S., Sanders M., Saunders D., Seeger K., Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K., Unwin L., Whitehead S., Barrell B.G., Maskell D.J.Nat. Genet. 35:32-40(2003)Research Topic:Others

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