

## Serotype 3 fimbrial subunit Protein, Bordetella pertussis, Recombinant (His)

### General Information

Synonyms:	Serotype 3 fimbrial subunit;fim3
Protein Construction:	26-204 aa
Species:	Bordetella pertussis
Expression Host:	E. coli
Accession:	P17835
Molecular Weight:	23.2 kDa (predicted)
AA Sequence:	NDGTIVITGSDQTCVIEEPSTLNHIKVVQLPKISKNALRNDGDTAGATPFDIKLKECPQALGALKLYFEPGITT NYDTGDLIAYKQTYNASGNGNLSTVSSATKAKGVEFRLANLNGQHIRMGTDKTTQAAQTFTGKVTNGSKSYT LRYLASVYVKKPKEDVDAAQITSYVGFVSVYP

### 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:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**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

*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.

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