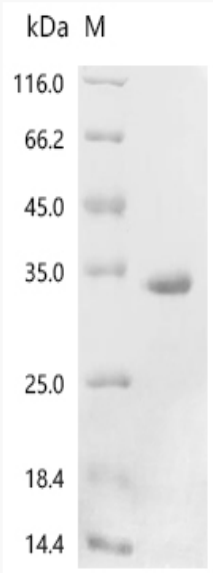
for research use only

Certificate of Analysis

Product Name	Recombinant Bordetella pertussis Serotype 2 fimbrial subunit (fim2)		
Catalog Number	**AAA18551**		
Expression host	*E.coli*		
Tag Info	N-terminal 6xHis-tagged		
Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol		
Batch Number	YC05742b1g5		
Nature	Bordetella pertussis fim2-(AA 27-207)-**P05788**-Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt	
	Long term	-20 to -80 ℃, six months from the date of receipt	
Form	Liquid		
Date of detection	2024.12.17		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.5 mg/ml
Purity	≥90%,by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		98%
Molecular Weight	Predicted band size: 23.3 kDa		Observed band size: 30 kDa The reducing (R) protein migrates a s 30 kDa in SDS- PAGE may be due to relative charge .

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	0.2 μm sterile filtered
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass

Datasheet

Product Name	Recombinant Bordetella pertussis Serotype 2 fimbrial subunit (fim2)
Catalog Number	AAA18551
Expression host	*E.coli*
Tag Info	N-terminal 6xHis-tagged
Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
Relevance	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.
AA sequence	DDGTIVITGTITDTTCVIEDPSGPNHTKVVQLPKISKNALKANGDQAGRTPFIIKLKDCPSSLGNGVKAYFEPGP TTDYSTGDLRAYKMVYATNPQTQLSNITAATEAQGVQVRISNLNDSKITMGANEATQQAAGFDPEVQTGGT SRTVTMRYLASYVKKNGDVEASAITTYVGFSVVYP