

## FIMBRIAE 2/3 FROM *BORDETELLA PERTUSSIS*

Fimbriae 2/3 (FIM 2/3) consists of two major agglutinogens (antigens 2 and 3) out of six agglutinogens, produced by various strains of *Bordetella pertussis*.<sup>1</sup> It is a component of several injectible acellular pertussis vaccines for the prevention of whooping cough.<sup>2,3</sup> Purified FIM 2/3 does not have any activity in hemagglutination assay (HA) using various animal erythrocytes and is antigenically, chemically, and structurally distinct from the filamentous hemagglutinin (FHA) of *B. pertussis*.<sup>4</sup> FIM 2/3 is a protein with an approximate molecular weight of 22 kDa.<sup>4</sup>

When run on 12% SDS-PAGE in the presence of a reducing agent, FIM 2/3 from List Biological Laboratories exhibits a single major band of apparent molecular weight of ~21 kDa. When examined in immunoblot or Western Blot experiments, this product reacts with anti-Fimbriae 2 and anti-Fimbriae 3 antibodies, but not with anti-Pertactin, anti-FHA nor anti-Pertussis Toxin S1 antibodies.

FIM 2/3 is aseptically packaged and is provided as a lyophilized powder. When reconstituted with 250 µL of sterile purified water, each vial contains 50 µg of protein in 0.05 M Tris, 0.15 M NaCl at pH 8.0 with 0.1% Sucrose. A detailed lot analysis including recommended storage conditions accompanies each shipment.

**This product is intended for research purposes and is not intended for use in humans.** For further information, please contact List Biological Laboratories, Inc.

### Ordering Information

Product No.	Description	Size
<b>186</b>	Fimbriae 2/3 from <i>Bordetella pertussis</i> (FIM 2/3)	50 µg

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### References

1. Preston NW, Surapatana N, Carter EJ. A reappraisal of serotype factors 4,5, and 6 of *Bordetella pertussis*. *J. Hyg.Camb.* 1982; 88(1):39-46. [PMCID:PMC2134147](#)
2. Poolman JT, Hallander HO. Acellular pertussis vaccines and the role of pertactin and fimbriae. *Expert Rev. Vaccines.* 2007; 6(1):47-56. [PMID:17280478](#)
3. Irons LI, Ashworth LAE, Robinson A. Release and purification of fimbriae from *Bordetella Pertussis*. *Develop. Bio. Standard.* 1985; 61:153-163. [PMID:2872101](#)
4. Zhang JM, Cowell JL, Steven AC, Carter PH, McGrath PP, Manclark CR. Purification and characterization of fimbriae isolated from *Bordetella pertussis*. *Infection and Immunity.* 1985; 48(2):422-427. [PMID:2859248](#)

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