

Pertussis Toxin

Cat. No.:	HY-112779
CAS No.:	70323-44-3
Target:	Others
Pathway:	Others
Storage:	Store at 4°C, do not freeze

Pertussis Toxin

BIOLOGICAL ACTIVITY

Description	Pertussis Toxin is a protein-based AB ₅ -type exotoxin produced by the bacterium <i>Bordetella pertussis</i> , which causes whooping cough. Pertussis Toxin inhibits G protein-coupled receptor (GPR) signaling through Gi proteins ^{[1][2][3]} .
In Vitro	Pertussis toxin is a secreted protein exotoxin and an important virulence factor produced exclusively by <i>B. pertussis</i> ^[1] . Pertussis toxin (PTX; 100 ng/ml; 12 h) completely suppresses the increase in G protein-coupled receptor kinase 2 (GRK2)-dependent migration in HeLa cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2022 Oct 26;13(1):6365.
- Sci Adv. 2022 Sep 30;8(39):eabo4250.
- Clin Transl Med. 2022 Aug;12(8):e999.
- Pharmacol Res. 2023 Apr 3;106754.
- FASEB J. 2020 Nov;34(11):14892-14904.

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REFERENCES

- [1]. Carbonetti NH, et al. Pertussis toxin and adenylate cyclase toxin: key virulence factors of *Bordetella pertussis* and cell biology tools. *Future Microbiol.* 2010 Mar;5(3):455-69.
- [2]. Petronila Penela, et al. G protein-coupled receptor kinase 2 positively regulates epithelial cell migration. *EMBO J.* 2008 Apr 23;27(8):1206-18.
- [3]. Nicholas H Carbonetti, et al. Contribution of pertussis toxin to the pathogenesis of pertussis disease. *Pathog Dis.* 2015 Nov;73(8):ftv073.

Caution: Product has not been fully validated for medical applications. For research use only.

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