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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

Pertussis Toxin from *Bordetella pertussis* (in glycerol)

Item No. 23220

Overview and Properties

Contents: Each vial contains 50 µg of pertussis toxin in 50% glycerol, 0.05 M Tris, 0.01 M glycine, 0.5 M sodium chloride, pH 7.5, at a concentration of 0.15 mg/ml. Mix gently prior to use to ensure a uniform suspension. **Do not sterile filter, as this will result in loss of material.**
Storage: -20°C (as supplied)
Stability: ≥2 years
Purity: ≥95% (estimated by SDS-PAGE)
Special Conditions: Handle gently; do not vortex
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Pertussis toxin was first isolated from *B. pertussis* and is used to study G protein-coupled receptor signaling in cells and experimental autoimmune encephalomyelitis (EAE) in animals. Pertussis toxin catalyzes the transfer of the ADP-ribose moiety of NAD to the α subunits of heterotrimeric $G_{i/o}$ proteins, resulting in the receptors being uncoupled from $G_{i/o}$ proteins.[1,2] Pertussis toxin is also used as an adjuvant, given with specific antigens, to immunize animals and induce EAE, an animal model of multiple sclerosis.[3,4]

References

1. Kaslow, H.R. and Burns, D.L. Pertussis toxin and target eukaryotic cells: Binding, entry, and activation. *FASEB J.* **6(9)**, 2684-2690 (1992).
2. Ui, M. Islet-activating protein, pertussis toxin: A probe for functions of the inhibitory guanine nucleotide regulatory component of adenylate cyclase. *Trends Pharmacol. Sci.* **5**, 277-279 (1984).
3. Davenport, K.R., Smith, C.A., Hofstetter, H., *et al.* Site-directed immobilization of a genetically engineered anti-methotrexate antibody via an enzymatically introduced biotin label significantly increases the binding capacity of immunoaffinity columns. *J. Chromatogr. B. Analyt. Technol. Biomed. Life Sci.* **1021**, 114-121 (2016).
4. Ronchi, F., Basso, C., Preite, S., *et al.* Experimental priming of encephalitogenic Th1/Th17 cells requires pertussis toxin-driven IL-1β production by myeloid cells. *Nat. Commun.* **7:11541**, (2016).

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