

FUJIFILM

Wako

〈For Research Use Only〉 Code No. 168-22471 (25 μ g)

Pertussis Toxin Solution

百日咳毒素溶液

Pertussis toxin is produced by the gram-negative coccobacillus, *Bordetella pertussis*. This toxin consists of six of five kinds of subunits. Subunit S1 is called the A-protomer. Other complexes are called the B-oligomer, which consists of one subunit of S2, S3 and S5 and two subunits of S4. A-protomer is responsible for the ADP-ribosylation of G_i, G_o and G_q α -subunit. This ADP-ribosylation blocks the signaling from the upstream receptor. B-oligomer is responsible for the toxin's binding to the cell surface.

Source : *Bordetella pertussis*

Appearance : Solution, dissolved in 10 mmol/L potassium phosphate buffer (pH 7.4), 137 mmol/L NaCl and 10% glycerol.

Protein Concentration : Indicated on the label.

Molecular weight : This toxic protein consists of five subunits combined in a 1 : 1 : 1 : 2 : 1 ratio. The molecular weights are as follows ; S1=26,000 ; S2=22,000 ; S3=22,000 ; S4=12,000 ; S5=12,000.

【Caution】

This product is extremely toxic. Wear protective gloves and other protection, when you treat this product. Do not mouth pipette. Avoid skin contact. Soak utensils and toxin solution overnight in a 2% NaOH solution or NaClO solution containing 1% available chlorine, or boil for 20 minutes.

This product is for research use only. Do not use this product on humans.

【使用上の注意】

本品は強い毒性をもっています。本品をお取扱いの際は保護手袋や防護服をご使用下さい。口でのピペッティングを避けて下さい。肌や傷口に触れさせないで下さい。

また、使用した器具及び毒素溶液は必ず2 %水酸化ナトリウム溶液または有効塩素約1 %含有の次亜塩素酸ナトリウム溶液に一晩浸漬するか、20分間煮沸し、毒素を分解して下さい。

本品は、試験・研究の目的にのみ使用されるもので、医療には用いないで下さい。

【Storage】

Store at - 80°C in the dark.

【Package】

25 μ g

【References】

1. Hewlett, E. L. *et al.* : *Infect. Immun.*, **40**, 1198 (1983).
2. Wong, K. H. and Skelton, S. K. : *J. Clin. Microbiol.*, **27**, 2805 (1989).
3. Skelton, S. K. and Wong, K. H. : *J. Clin. Microbiol.*, **28**, 1062 (1990).

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