

**FUJIFILM****Wako**〈For Research Use Only〉 Code No. 030-20621 (100  $\mu$ g)

## Cholera Toxin Solution コレラ毒素溶液

Cholera toxin is produced by the gram-negative bacterium, *Vibrio cholerae*. This toxin leads to severe diarrheal disease followed by dehydration in humans. It consists of a single A subunit and five B subunits. The A subunit is responsible for the ADP-ribosylation of  $\alpha$ -subunit of Gs (a kind of GTP-binding proteins). This ADP-ribosylation constitutively activates adenylate cyclase, resulting in increased intracellular cAMP levels. The B subunit is responsible for the toxin's binding to GM1 ganglioside on the cell surface.

**Source :** *Vibrio cholerae* 569B

**Appearance :** Solution, 50 mmol/L Tris-HCl (pH 7.5), 0.2 mol/L NaCl, 1 mmol/L EDTA  $\cdot$  2Na and 10% Glycerol.

**Molecular Weight :** This enzyme is composed of two subunits (A and B) of approximately 27,200 and 11,600, respectively.

**Protein Concentration :** Indicated on the label.

### 【Caution】

This product is extremely toxic. Wear protective gloves and other protection, when handling 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 at 100°C for 30 minutes. This product is for research use only.

### 【ご使用上の注意】

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、100°Cで30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す。

### 【Storage】

Store at  $-80^{\circ}\text{C}$

### 【Expiration Date】

Indicated on the label.

### 【Package】

100  $\mu$ g

### 【References】

1. Finkelstein, R.A. *et al.* : *J. Exp. Med.*, **130**, 185 (1969).
2. Vaughan, M. and Moss, J. : *J. Supramol. Struct.*, **8**, 473 (1978).

### 【Related Products】

Code No.	Description	Package
036-20601	Cholera Toxin A Subunit, Solution	50 $\mu$ g
033-20611	Cholera Toxin B Subunit, Solution	50 $\mu$ g

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