

Active Recombinant Bordetella pertussis Adenylate Cyclase

Cat. No. cya-140B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is a recombinant toxin of Bordetella pertussis Tohama strain expressed in E. coli from the structural gene cyaA and its activator gene cyaC.
Species	Bordetella pertussis
Source	E.coli
Description	Adenylate cyclase is a toxin produced by a gram-negative coccobacillus, Bordetella pertusis. This toxin penetrates into the animal cells and produces cAMP from ATP in the cytoplasm. It belongs to the RTX family of toxins produced by many gram-negative bacteria. The molecular weight is 177 kDa.
Form	550 µ/ml in 50 mM Tris-HCl(pH8.0), 6M urea, 150 mM NaCl
Bio-activity	Addition of the 10~100 ng/ml adenylate cyclase toxin to medium increased significant levels of cellular cAMP levels in CHO and human monocyte cells.
Purity	More than 90% purity by SDS-PAGE (CBB staining)
Applications	1) Functionale studies on the cAMP- signaling pathway (10~100 ng/ml) 2) Antigen for western blotting and ELISA 3) SDS-PAGE marker as native adenylate cyclase
Storage	Shipped with dry-ice and store at -80°C

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