

Active Recombinant *B. pertussis* cyaA Protein

Cat. No. cyaA-001B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is a recombinant toxin of <i>Bordetella pertussis</i> Tohama strain expressed in <i>E. coli</i> from the structural gene <i>cyaA</i> and its activator gene <i>cyaC</i> and purified by the method of Friedman.
Species	<i>B.pertussis</i>
Source	<i>E.coli</i>
Description	Adenylate cyclase is a toxin produced by a gram-negative coccobacillus, <i>Bordetella pertussis</i> . 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.
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 as examined by Biotrak cAMP EIA System of GE Healthcare Bioscience.
Molecular Mass	177 KDa
Purity	More than 90% purity by SDS-PAGE (CBB staining)
Applications	1) Functional studies on the cAMP- signaling pathway (10~100 ng/ml) 2) Antigen for western blotting and ELISA

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3) SDS-PAGE marker as native adenylate cyclase

Storage Shipped with dry-ice and store at -80centigrade.

Warning For research use only, not to be used for human application.

GENE INFORMATION

Gene Name Bifunctional hemolysin-adenylate cyclase [Bordetella pertussis Tohama I]

Official Symbol [cyaA](#)

Synonyms cyaA; bifunctional hemolysin-adenylate cyclase; cya

Gene ID [2664492](#)

Protein Refseq [NP_879578.1](#)

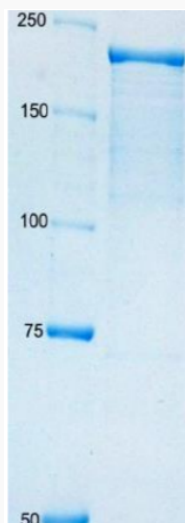
UniProt ID [P0DKX7](#)

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**SDS polyacrylamide
gel electrophoresis
of adenylate cyclase
toxin.**



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