

Certificate of Analysis

Name: Bordetella Pertussis Adenylate Cyclase, Active

Product Code: REC31956-50

Batch #:

Date of Manufacture:

Product Description: This product is a recombinant Bordetella pertussis toxin expressed in E. coli from the structural gene *cyaA* and its activator gene *cyaC* and purified by the method of Friedman¹.

Expression System: E. coli

Accession: P0DKX7

Strain/Isolate: Tohama

Expected Molecular Weight: 177 kDa

Observed Molecular Weight: 177 kDa

Amount: 0.05 mg

Concentration: 0.55 mg/ml

Purity: >90% purity by SDS-PAGE (CBB staining)

Presentation: Liquid

Buffer: 50 mM Tris-HCl (pH8.0), 6M urea, 150 mM NaCl.

Activity: Addition of the 10~100 ng/ml adenylate cyclase toxin to medium significantly increased levels of cellular cAMP levels in CHO and human monocyte cells (Biotrak cAMP EIA System, GE Healthcare Bioscience).

Applications: Functional studies on the cAMP- signaling pathway (10~100 ng/ml). Antigen for western blotting and ELISA. SDS-PAGE marker as native adenylate cyclase.

Health & Safety: No overt mouse toxicity was observed by intravenous injection of 50µg of adenylate cyclase toxin¹. No toxicity for human is known. However, this product is an active protein and may elicit a biological response in vivo, handle with caution.

¹ Friedman RL (1987) Bordetella pertussis adenylate cyclase: isolation and purification by calmodulin sepharose 4B chromatography. Infect Immun 55: 129-134.

Usage Guidelines

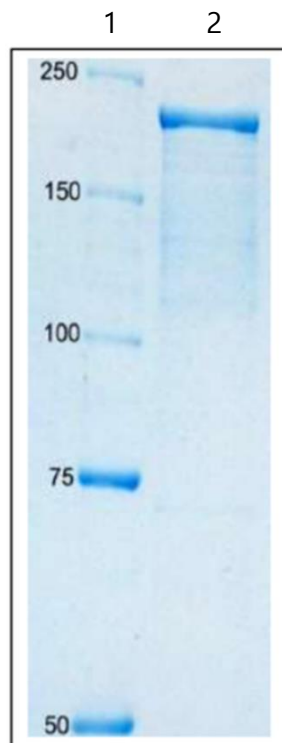
Short Term Storage: -20°C

Long Term Storage: -80°C

Stability: Not determined

Freezing: Can be frozen

SDS-PAGE: SDS polyacrylamide gel electrophoresis of adenylate cyclase toxin (8% gel).



1: MW marker
2: Adenylate cyclase

X

QC

X

QA

Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.