

## Adenylate Cyclase Toxin

01-501      50 µg

Adenylate cyclase is a toxin produced by a gram-negative coccobacillus, *Bordetella pertussis*. 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 (Fig.1)

This product is a recombinant toxin of *Bordetella pertussis* Tohama strain expressed in *E. coli* and highly purified by the method of Friedman (1) .

### Applications

- 1) For the studies on the cAMP- signaling pathway

### Specifications

Activity test: Addition of the adenylate cyclase toxin to 10~100 ng/ml in medium increased significant levels of cellular cAMP levels in CHO and human monocyte cells (2) as examined by Biotrak cAMP EIA System of GE Healthcare Bioscience

Purity: More than 80% pure by SDS-PAGE (CBB staining)

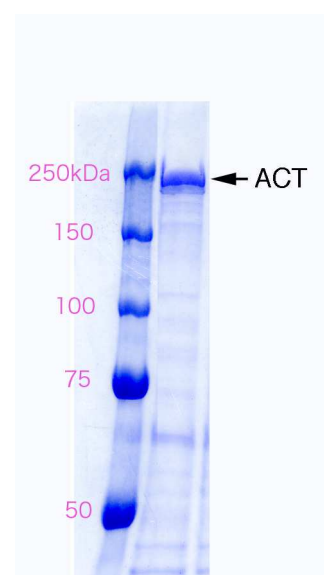
Form: 360 µg/ml in 50 mM Tris-HCl(pH8.0), 6M urea, 150 mM NaCl

Storage: -70℃

### Reference

1. Friedman, RL, Infect. Immun. 55:129-134(1987)
2. Gentile F. 1988) Eur J Biochem. 175: 44-53(1988)

Fig.1 SDS polyacrylamide gel electrophoresis of Adenylate Cyclase Toxin



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