

Active Native Clostridium difficile Toxin A Protein

Cat. No. TcdA-188C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Toxin A purified from Clostridium difficile.
Species	Clostridium difficile
Source	Clostridium difficile
Description	Toxin A from Clostridium difficile, also known as TcdA, is an enterotoxin that has glucosyltransferase and cysteine protease activities. It inactivates host Rho family GTPases by glucosylation, altering cytoskeletal structure, cell division, and cell-cell adhesion. Toxin A can induce activation of the inflammasome and apoptosis. While both toxin A and toxin B inactivate Rho family GTPases, toxin A has a higher binding affinity for epithelial cell surface carbohydrates.
Bio-activity	EC50 of < 0.2 ng/mL, as tested on Vero cells.
Purity	≥80% estimated by SDS-PAGE
Stability	≥ 2 years
Storage	At 4 centigrade.
Storage Buffer	50 mM Tris, 50 mM NaCl, pH 7.5, and 0.1% trahalose
Reconstitution	0.5 mL of water

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GENE INFORMATION

Synonyms	TcdA; Toxin A
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UniProt ID	P16154
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