

## Active Native Clostridium difficile Toxin B Protein

Cat. No. TcdB-189C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Native Toxin B purified from Clostridium difficile.
<b>Species</b>	Clostridium difficile
<b>Source</b>	Clostridium difficile
<b>Description</b>	Toxin B from Clostridium difficile, also known as TcdB, is a cytotoxin 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 B can induce activation of the inflammasome and apoptosis. While both toxin A and toxin B inactivate Rho family GTPases, toxin B more potently induces mammalian cell rounding in culture.
<b>Bio-activity</b>	EC50 of 1 pg/mL as tested on Vero cells.
<b>Purity</b>	≥90% estimated by SDS-PAGE
<b>Storage</b>	2-8 centigrade (as supplied)
<b>Concentration</b>	0.2 mg/mL
<b>Storage Buffer</b>	50 mM Tris, 100 mM NaCl, pH 7.5

### GENE INFORMATION

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**Synonyms**

TcdB; Toxin B

**UniProt ID**

P18177

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