

Product datasheet

Native Clostridium difficile Toxin B protein ab124001

★★★★★ 1 Abreviews 4 References 1 Image

Description

Product name	Native Clostridium difficile Toxin B protein
Biological activity	Measured by vercytotoxicity assay with 2 pg/ml as lowest point at which rounded cells are observed.
Purity	> 95 % Affinity purified. Clostridium difficile Toxin B has been highly purified.
Expression system	Native
Accession	P18177
Protein length	Full length protein
Animal free	No
Nature	Native
Predicted molecular weight	270 kDa
Amino acids	2 to 2366

Specifications

Our [Abpromise guarantee](#) covers the use of **ab124001** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized
Additional notes	This protein is derived from a pathogenic organism, and may be involved in a disease process, consequently exposure may have adverse health effects.

Functional Studies Protocol

1.1 Vero cells are plated out the night before on a 96-well plate at a concentration of 20K cells per well (in 100ml), then incubated at 37°C, 5% CO₂. The following day they should be lightly confluent.

1.2 Lyophilised toxin/toxoid is resuspended as per the instructions in the certificate of analysis, and diluted in duplicate to 0.1mg/ml in DMEM (200ml total) without FBS in the first well of a non-TC-treated 96-well plate. A serial 5-fold dilution is performed (40ul in 160ul) in the same media using a multichannel for 11 dilutions in total, leaving the 12th dilution as a media control.

1.3 20ul of each dilution is then pipetted onto each well of the pre-prepared Vero cells and then

incubated at 37°C, 5% CO₂ for 24 hours.

1.4 The following day, the cells are examined using an inverted phase contrast tissue culture microscope. Cells with active toxin on should be rounded, cells without significant toxicity should look like the control cells.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.

pH: 7

Constituents: 1.19% HEPES, 5% Sucrose, 0.88% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute in 250µl sterile distilled water. Reconstituted liquid can be stored at -80°C or -20°C to extend stability.

General Info

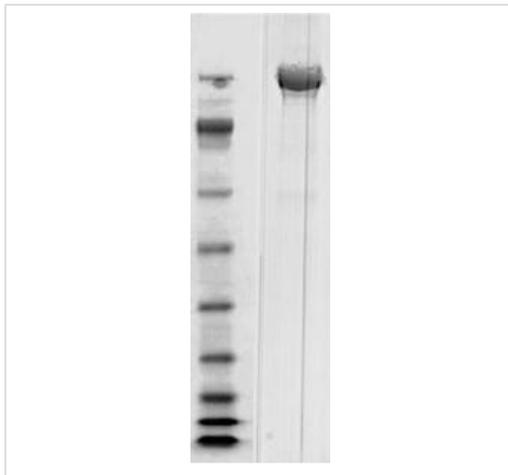
Relevance

Clostridium difficile Toxin B (tcdB or ToxB) is a glucosyltransferase which is known to inactivate Rho, Cdc42 and Rac within target cells. This toxin is encoded on a pathogenicity region of the C. difficile chromosome and is expressed during the log and stationary phases of growth in response to a variety of environmental stimuli.

Cellular localization

Secreted

Images



SDS-PAGE showing ab124001 at 270 kDa.

SDS-PAGE - Native Clostridium difficile Toxin B protein (ab124001)

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