

# C. difficile Toxin B Protein, His tag, E. coli

Catalog Number LDG024POE

Package 5 μg / 20 μg / 100 μg / Customized package

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# **Specifications**

**Species of Origin** 

Clostridium difficile

**Affinity Tag** 

His Tag (C-term)

**Purity** 

>95% as determined by SDS-PAGE analysis.

**Endotoxin level** 

<0.1 EU per 1  $\mu g$  of the protein by the LAL method.

**Expression system** 

Escherichia coli

**Buffer** 

Lyophilized from a 0.2  $\mu m$  filtered solution of PBS, pH 7.4

Molecular weight

The protein has a calculated MW of 63.93 kDa. The protein migrates as 60 kDa under reducing condition (SDS-PAGE analysis).

**Form** 

Lyophilized

# Background



## **Background**

Clostridium difficile enterotoxin B is a protein produced by the bacterium Clostridium difficile. It plays a crucial role in the pathogenesis of C. difficile-associated diseases, particularly in causing damage to the intestinal mucosa and inducing inflammation. This toxin disrupts cellular integrity by targeting specific receptors on the host cell surface, leading to cell death and tissue damage. Understanding the mechanisms of action of this toxin is essential for developing effective treatments and vaccines against C. difficile infections.

#### **Uniprot ID**

P18177

#### **Synonyms**

Glucosyltransferase TcdB, toxB

#### **Sequence Note**

Met1-Leu543

## Instruction

#### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

## Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

## Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

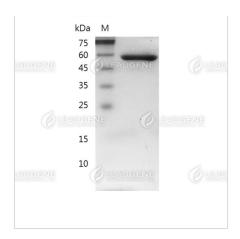
# **Image**

Tainan Headquarter

**Innovation & Research Center** 

**CLD Center** 





SDS-PAGE analysis of recombinant toxin B.

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