

## Recombinant Escherichia coli CDTB Protein (19-269 aa), His-SUMO-Myc-tagged

**Cat. No.** CDTB-2179E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Escherichia coli CDTB Protein (19-269 aa) is produced by E. coli expression system. This protein is fused with a 10xHis-SUMO tag at the N-terminal and a Myc tag at the C-terminal. Protein Description: Full Length of Mature Protein.                                              |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 19-269 aa                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Part of the tripartite complex that is required for the CDT activity. CdtB exhibits a DNA-nicking endonuclease activity, and very probably causes DNA damage in intoxicated cells. This damage induces G2/M cell cycle arrest, chromatin fragmentation, cell distention and nucleus enlargement. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 47.4 kDa                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | DLTDFRVATWNLQGASATTESKWNINVRQLISGENAVDILAVQEAGSPSTAVDTGT<br>LIPSPGIPVRELIWNLSTNSRPQQVYIYFSAVDALGGRVNLALVSNRRADEVFVLSPV<br>RQGGRPLLGI RIGND AFFT AHA I AMRNNDAPALVEEVYNFFRDSRDPVHQALNWMIL<br>GDFNREPADLEMNLTVPVRRASEIISPAAATQTSQRTLDYAVAGNSVAFRPSPLQAG<br>IVYGARRTQISSDHFPVGVSR                   |

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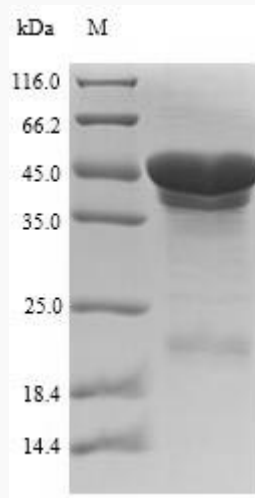
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>          | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b>    | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | cdtB type III cytolethal distending toxin protein CdtB [ Escherichia coli Vir68 ]                                                                                                                                                                                                                                   |
| <b>Official Symbol</b>  | CDTB                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | cdtB;                                                                                                                                                                                                                                                                                                               |
| <b>Gene ID</b>          | 8164729                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>       | Q46669                                                                                                                                                                                                                                                                                                              |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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