

## CDTB Protein, E.coli (Myc, His-SUMO)

Cat. No.:	HY-P71555
Synonyms:	cdtB; Cytolethal distending toxin subunit B; CDT B; Deoxyribonuclease CdtB
Species:	E.coli
Source:	E. coli
Accession:	Q46669 (19D-269R)
Gene ID:	/
Molecular Weight:	Approximately 47.4 kDa

### PROPERTIES

AA Sequence	<pre> DLTDFRVATW   NLQGASATTE   SKWNIIVRQL   ISGENAVDIL AVQEAGSPPS   TAVDTGTLIP   SPGIPVRELI   WNLSTNSRPQ QVYIYFSAVD   ALGGRVNLAL   VSNRRADEVF   VLS PVRQGGR PLLGIRIGND   AFFTAHAIAM   RNDAPALVE   EVYNFFRDSR DPVHQALNWM   ILGDFNREPA   DLEMNLTVPV   RRASEIISPA AATQTSQRTL   DYAVAGNSVA   FRPSPLQAGI   VYGARRTQIS SDHFPPVGVSR   R           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>CDTB Protein is an integral component of the tripartite complex essential for Cytolethal Distending Toxin (CDT) activity. With its distinct DNA-nicking endonuclease activity, CdtB is likely responsible for inducing DNA damage in targeted cells. This damage, in turn, triggers G2/M cell cycle arrest, chromatin fragmentation, cell distention, and nucleus enlargement. CDTB functions within the heterotrimeric assembly alongside CdtA and CdtC, forming a cohesive unit critical for the cytotoxic effects of CDT. The intricate interplay of these subunits underscores the multifaceted role of CDTB in cellular responses to CDT intoxication.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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