

# Active Native *Bordetella bronchiseptica* Dermonecrotic Toxin

**Cat. No.** dnt-142B    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | DNT was purified from <i>B. bronchiseptica</i> strain S798 by propriety chromatography and differential precipitation method.                                                                                                                                                                                                                                    |
| <b>Species</b>          | <i>B. bronchiseptica</i>                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | <i>B. bronchiseptica</i>                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Dermonecrotic toxin (DNT) is a common toxin produced by pathogenic bacteria belonging to the genus <i>Bordetella</i> , such as <i>B. pertussis</i> , <i>B. parapertussis</i> , and <i>B. bronchiseptica</i> . This toxin activates small GTP-binding proteins such as Rho, Rac and Cdc42 through deamidation or polyamination for downstream signaling pathways. |
| <b>Form</b>             | 0.53 mg/ml of DNT in 50 mM sodium phosphate buffer (pH 7.2), 1 M urea, 0.3 M sodium sulfate, filter-sterilized.                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | DNT at 5 ng/ml induces ballooning morphological change in cultured mouse osteoblastic cell line MC3T3-E1.                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | More than 95 % purity by SDS-PAGE (CBB staining)                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>     | 1) For the studies of the signaling pathways mediated by small GTP-binding proteins.<br>2) Antigen to be used for detection of infection of <i>Bordetella</i> by immunological method.                                                                                                                                                                           |
| <b>Storage</b>          | Store at 4°C                                                                                                                                                                                                                                                                                                                                                     |

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