

## Recombinant Mouse Dtd1 Protein, Myc/DDK-tagged

**Cat. No.** Dtd1-2667M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length D-tyrosyl-tRNA deacylase 1 (Dtd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | An aminoacyl-tRNA editing enzyme that deacylates mischarged D-aminoacyl-tRNAs. Also deacylates mischarged glycyl-tRNA(Ala), protecting cells against glycine mischarging by AlaRS. Acts via tRNA-based rather than protein-based catalysis; rejects L-amino acids rather than detecting D-amino acids in the active site. By recycling D-aminoacyl-tRNA to D-amino acids and free tRNA molecules, this enzyme counteracts the toxicity associated with the formation of D-aminoacyl-tRNA entities in vivo and helps enforce protein L-homochirality. |
| <b>Molecular Mass</b>   | 23.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [Dtd1 D-tyrosyl-tRNA deacylase 1 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Dtd1](#)

**Synonyms**

Dtd1; D-tyrosyl-tRNA deacylase 1; Ha; DTD; DUE-B; Hars2; 0610006H08Rik; D-aminoacyl-tRNA deacylase 1; D-tyrosyl-tRNA deacylase 1 homolog; D-tyrosyl-tRNA(Tyr) deacylase 1; DNA-unwinding element-binding protein B; gly-tRNA(Ala) deacylase; EC 3.1.1.96

**Gene ID** [66044](#)

**mRNA Refseq** [NM\\_025314](#)

**Protein Refseq** [NP\\_079590](#)

**UniProt ID** [Q9DD18](#)

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