

Recombinant Mouse Dtd1 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length D-tyrosyl-tRNA deacylase 1 (Dtd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	23.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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