

Product datasheet for TP502251

Dtd1 (NM_025314) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse D-tyrosyl-tRNA deacylase 1 (Dtd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR202251 protein sequence Red =Cloning site Green =Tags(s)
	MKAVVQRVTRASVTVGGGEQISAIGRGICVLLGISMEDSQKELEHMVRKILNLRVFEDES SGKHWSKSVMDK EYEVLCVSQFTLQCVLKG NKPDFHLAMPTEQAESFYNSFLEQLRKSYP ELIRDGKFGAYMQVHIQNDGP VTIELESPAPGAASSDPKQLSKLEKQQQRKEKTRAKG PS ESSKERNAPRKEDRSASSGAEGDVSSEREP
	TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	23.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_079590</u>
Locus ID:	66044
UniProt ID:	<u>Q9DD18</u>
RefSeq Size:	1283
Cytogenetics:	2 G1



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RefSeq ORF: 630

Synonyms: 0610006H08Rik; DTD; DUE-B; Hars2

Summary: 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.[UniProtKB/Swiss-Prot Function]