

Product Data Sheet

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DTD1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70087
Synonyms:	rHuD-aminoacyl-tRNA deacylase 1/DTD1, His; D-tyrosyl-tRNA(Tyr) deacylase 1; DNA-unwinding element-binding protein B; DUE-B; Histidyl-tRNA synthase-related; DTD1; C20orf88; DUEB; HARS2
Species:	Human
Source:	HEK293
Accession:	Q8TEA8 (M1-P209)
Gene ID:	92675
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES	
FROPERTIES	
AA Sequence	MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDKQYEILCVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAPGTATSDPKQLSKLEKQQQRKEKTRAKGPSESSKERNTPRKEDRSASSGAEGDVSSEREP
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION	
Background	DTD1 protein is a possible ATPase involved in DNA replication, potentially playing a role in the loading of CDC45 onto pre- replication complexes. Additionally, it functions as an aminoacyl-tRNA editing enzyme, specifically deacylating mischarged D-aminoacyl-tRNAs and mischarged glycyl-tRNA(Ala). Notably, the enzyme employs tRNA-based catalysis, rejecting L-amino acids rather than detecting D-amino acids in the active site. This activity aids in the recycling of D-aminoacyl-tRNA to D- amino acids and free tRNA molecules, mitigating the toxicity associated with the formation of D-aminoacyl-tRNA entities in

vivo and contributing to the maintenance of protein L-homochirality.

Caution: Product has not been fully validated for medical applications. For research use only.

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