

Recombinant Human D-tyrosyl-tRNA deacylase 1, His-tagged

Cat. No. DTD1-392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DTD1, 1-209aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-209 a.a.
Description	DTD1 hydrolyzes D-tyrosyl-tRNA(Tyr) into D-tyrosine and free tRNA(Tyr). It could be a defense mechanism against a harmful effect of D-tyrosine. DTD1 may be a risk factor for aspirin-intolerant asthma (AIA) by catalyzing the hydrolysis of D-tryptophan and interacting with the tyrosyl-tRNA synthetase (tyrRS) enzyme, which promotes a pro-inflammatory phenotype. This protein is localize to the DUE(DNA unwinding element)s of active replication origins. Recombinant human DTD1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	25.9kDa (232aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKAVVQR VTRASVTVGG EQISAIGRGI CVLLGISLED TQKELEHMVR KILNLRVFED ESGKHWKSV MDKQYEILCV SQFTLQCVLK GNKPDFLAM PTEQAEGFYN SFLEQLRKTY RPELIKDGKF

 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

GAYMQVHIQN DGPVTIELES PAPGTATSDP KQLSKLEKQQ QRKEKTRAKG
PSESSKERNT PRKEDRSASS GAEGDVSSER EP

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [DTD1 D-tyrosyl-tRNA deacylase 1 homolog \(S. cerevisiae\) \[Homo sapiens \]](#)

Official Symbol DTD1

Synonyms DUEB; HARS2; pqn-68; C20orf88; bA379J5.3; bA555E18.1

Gene ID [92675](#)

mRNA Refseq [NM_080820.4](#)

Protein Refseq [NP_543010.3](#)

MIM [610996](#)

UniProt ID [Q8TEA8](#)

Chromosome Location 20p11.23

Function hydrolase activity, acting on ester bonds;

 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