

Product information

DTD1, 1-209aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1831

Full name: D-tyrosyl-tRNA deacylase 1

NCBI Accession No.: NP_543010

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

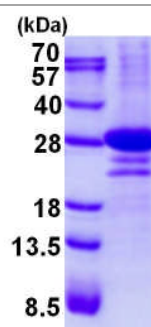
Description: DTD1 hydrolyzes D-tyrosyl-tRNA(Tyr) into D-tyrosine and free tRNA(Tyr). It could be a defense mechanism against a harmful effect of D-tyrosine. DTD1 may be a risk factor for aspirin-intolerant asthma (AIA) by catalyzing the hydrolysis of D-tryptophan and interacting with the tyrosyl-tRNA synthetase (tyrRS) enzyme, which promotes a pro-inflammatory phenotype. This protein is localized 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 Weight: 25.9kDa (232aa) confirmed by MALDI-TOF

Purity: > 85% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMAKVVQR VTRASVTVG EQISAIGRGI CVLLGISLED TQKELEHMVR KILNLRVFED ESGKHWSKSV
MDKQYEILCV SQFTLQCVLK GNKPDFHLAM PTEQAEGFYN SFLEQLRKTY RPELIKDGKF GAYMQVHIQN DGPVTIELES PAPGTATSDP
KQLSKLEKQQ QRKEKTRAKG PSESSKERNT PRKEDRSASS GAEGDVSSER EP

General references:

Pasaje CF, *et al.* (2011) *Int J Mol Med.* 28(1):129-37.

Chowdhury A, *et al.* (2010) *Mol Cell Biol.* 30(6):1495-507.

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com