

Recombinant human DTD1 protein

Catalog Number: ATGP1831

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-209aa

UniProt No.

Q8TEA8

NCBI Accession No.

NP_543010

Alternative Names

D-tyrosyl-tRNA deacylase 1, bA379J5.3, bA555E18.1, C20orf88, DuEB, HARS2, pqn-68

PRODUCT SPECIFICATION

Molecular Weight

25.9 kDa (232aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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) sites 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.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMKAVVQR VTRASVTVGG EQISAIGRGI CVLLGISLED TQKELEHMVR KILNLRVFED
ESGKHWSKSV MDKQYEILCV SQFTLQCVLK GNKPDFHLAM PTEQAEGFYN SFLEQLRKTY RPELIKDGKF GAYMQVHIQN
DGPVTIELES PAPGTATSDP KQLSKLEKQQ QRKEKTRAKG PSESSKERNT PRKEDRSASS GAEGDVSSER EP

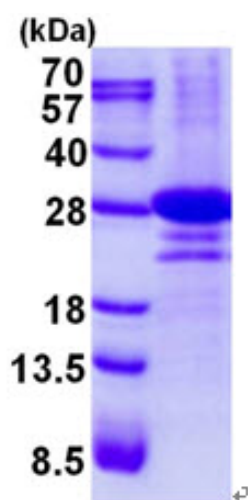
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)