

# Recombinant human DCTPP1 protein

Catalog Number: ATGP1381

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-170aa

### UniProt No.

Q9H773

### NCBI Accession No.

NP\_077001

### Alternative Names

Deoxycytidine-triphosphatase 1, dCTPase 1, dCTP pyrophosphatase 1, CDA03, RS21C6, XTP3TPA

## PRODUCT SPECIFICATION

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### Molecular Weight

21.2 kDa (194aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 90% 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

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### Description

DCTPP1, also known as dCTP pyrophosphatase 1, contains an epilepsy-associated repeat (EAR) domain that is predicted to participate in protein-protein interactions, most likely involved in ligand recognition. This protein functions to hydrolyze abnormal nucleotide triphosphates (NTPs) in cancer cells that, if unregulated, could be incorporated into nascent DNA or RNA. Recombinant human DCTPP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMSVAGG EIRGDTGGED TAPGRFSFS PEPTLEDIR LHAEEFAAERD WEQFHQPRNL  
LLALVGEVGE LAELFQWKTD GEPGPQGWSP RERAALQEEL SDVLIYLVAL AARCRVDLPL AVLSKMDINR RRYPAHLARS  
SSRKYTELPH GAISEDQAVG PADIPCDSTG QTST

### General References

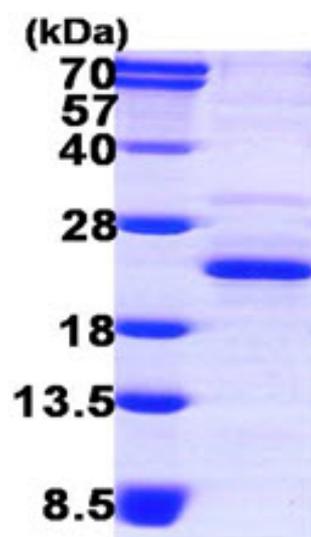
Moroz O.V. et al. (2005) J. Mol. Biol. 347: 243-255.

Rual J.F. et al. (2005) Nature 437:1173-1178.

## DATA

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### SDS-PAGE



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

12% SDS-PAGE (3ug)