

Datasheet for ABIN7557483  
**DPH1 Protein (AA 1-438) (His tag)**



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## Overview

Quantity:	1 mg
Target:	DPH1
Protein Characteristics:	AA 1-438
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPH1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Dph1 Protein expressed in mammalian cells.
Sequence:	<p>MAALVVSETA EPGSRVGPGR GRISRGRLAN QIPPEVLNNP QLQAAVQVLP SNYNFEIPKT  IWRIQQAQAK KVALQMPEGL LLFACTIVDI LERFTEAEVM VMGDVTYGAC CVDDFTARAL  GVDFLVHYGH SCLVPMDTSV QDFRVLYVFV DIRIDTAHLL DSVRLTFTPG SSLALVSTIQ  FVSTLQAAQ ELKADYHISV PQCKPLSPGE ILGCTSPRLS KEVEAVVYLG DGRFHLESVM  IANPNIPAYR YDPYGVLSR EYYDHQRMQA TRQEIAAAR SAKSWGILG TLGRQGSPKI  LEHLESQLRN LGLPFVRLLL SEIFPSKLSL LPEVDVWVQV ACPRLSIDWG SAFPKPLTTP  YEAVALKDI SWQQPYPMDF YSGSSLGPWT VNYGRDRAPR GLCQPASDKV QQGSRGGSPA  PACESCNCAD QKATSPAP</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

### Target:

DPH1

### Alternative Name:

Dph1 ([DPH1 Products](#))

### Background:

2-(3-amino-3-carboxypropyl)histidine synthase subunit 1 (EC 2.5.1.108) (Diphthamide biosynthesis protein 1) (Diphtheria toxin resistance protein 1) (Ovarian cancer-associated gene 1 protein homolog) (S-adenosyl-L-methionine:L-histidine 3-amino-3-carboxypropyltransferase 1),FUNCTION: Catalyzes the first step of diphthamide biosynthesis, a post-translational modification of histidine which occurs in elongation factor 2 (PubMed:15485916, PubMed:24895408). DPH1 and DPH2 transfer a 3-amino-3-carboxypropyl (ACP) group from S-adenosyl-L-methionine (SAM) to a histidine residue, the reaction is assisted by a reduction system comprising DPH3 and a NADH-dependent reductase (By similarity). Acts as a tumor suppressor (PubMed:14744934, PubMed:15661533, PubMed:24895408). {ECO:0000250|UniProtKB:P40487, ECO:0000269|PubMed:14744934, ECO:0000269|PubMed:15485916, ECO:0000269|PubMed:15661533, ECO:0000269|PubMed:24895408}.

### Molecular Weight:

48.0 kDa

## Target Details

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UniProt: [Q5NCQ5](#)

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months