

Datasheet for ABIN7560602  
**DPH2 Protein (AA 1-489) (His tag)**



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## Overview

Quantity:	1 mg
Target:	DPH2
Protein Characteristics:	AA 1-489
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPH2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Dph2 Protein expressed in mammalian cells.
Sequence:	MESTFSSPAE AALQREAGVP GQFTPPEDLD RYELERVTK FVCDLGCQRV TLQFPDQLLG DAGAVAAARLE EVTGAKMFIL GDTAYGSCCV DVLGAEQAGA QALVHFGPAC LSPPASQLPI TFVLGQRPVA LELCAKAFA QNPDPTAPVV LLSEPACAHA LEPLAMLLLP KYQDLLISRP ALPLVGSPTS SQPESLERFG RCFPLNPGRR LEEYGAFYVG ASQASSDSSL DPDLRLLLLG WTPGRPFVFC CPDTGQTQDQ GAKAGRLRAR RLYLIERARD ARVVGLLAGT LGVARHREAL AHLRKLTEAA GKRSYVLAVG KPTPAKLANF PEMDVFVLLA CPLGALAPQP SGGFFRPVLT PCELEAACNP AWPPPGLAPH LTHYAELLPG SPFHVPLPPP ESELWDTDPV SLISGELRPP PPWKSSDDTR CSALIPRPQL ELAESSPAAS FLSSRNWQGL EPRLGQTPVK EAVRGRRGIA IAYEDEGSS <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>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

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isoform, please contact us regarding an individual offer.

### 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

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### Target:

DPH2

### Alternative Name:

Dph2 ([DPH2 Products](#))

### Background:

2-(3-amino-3-carboxypropyl)histidine synthase subunit 2 (Diphthamide biosynthesis protein 2) (Diphtheria toxin resistance protein 2) (MmDph2) (S-adenosyl-L-methionine:L-histidine 3-amino-3-carboxypropyltransferase DPH2),FUNCTION: Required for the first step of diphthamide biosynthesis, a post-translational modification of histidine which occurs in elongation factor 2 (PubMed:15485916). 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). Facilitates the reduction of the catalytic iron-sulfur cluster found in the DPH1 subunit (By similarity). {ECO:0000250|UniProtKB:P32461, ECO:0000269|PubMed:15485916}.

### Molecular Weight:

52.4 kDa

### UniProt:

[Q9CR25](#)

## 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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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