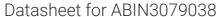
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DPH3 Protein (AA 1-82) (Strep Tag)



Image



Overview

Quantity:	1 mg
Target:	DPH3
Protein Characteristics:	AA 1-82
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPH3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MAVFHDEVEI EDFQYDEDSE TYFYPCPCGD NFSITKEDLE NGEDVATCPS CSLIIKVIYD

KDQFVCGETV PAPSANKELV KC

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	DPH3
Alternative Name:	DPH3 (DPH3 Products)
Background:	Diphthamide biosynthesis protein 3 (CSL-type zinc finger-containing protein 2) (DelGEF-
	interacting protein 1) (DelGIP1),FUNCTION: Required for the first step of diphthamide
	biosynthesis, a post-translational modification of histidine which occurs in elongation factor 2.
	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. Acts as an electron donor to reduce the
	Fe-S cluster in DPH1-DPH2 keeping the [4Fe-4S] clusters in the active and reduced state.
	Restores iron to DPH1-DPH2 iron-sulfur clusters which have degraded from [4Fe-4S] to [3Fe-4S]
	by donating an iron atom to reform [4Fe-4S] clusters, in a manner dependent on the presence o
	elongation factor 2 and SAM. Associates with the elongator complex and is required for tRNA
	Wobble base modifications mediated by the elongator complex. The elongator complex is
	required for multiple tRNA modifications, including mcm5U (5-methoxycarbonylmethyl uridine),
	mcm5s 2U (5-methoxycarbonylmethyl-2-thiouridine), and ncm5U (5-carbamoylmethyl uridine).
	{ECO:0000250 UniProtKB:Q3E840}.
Molecular Weight:	9.2 kDa
UniProt:	Q96FX2
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	and a second second
	guarantee though.
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Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

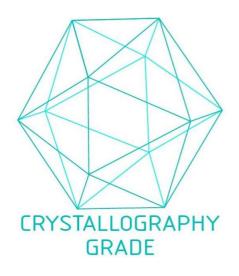


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process