Datasheet for ABIN7547157

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

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Overview

Quantity:	1 mg
Target:	DPH3
Protein Characteristics:	AA 1-82
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPH3 protein is labelled with Fc Tag.

Product Details

Purpose:	Custom-made recombinant DPH3 Protein expressed in mammalian cells.
Sequence:	MAVFHDEVEI EDFQYDEDSE TYFYPCPCGD NFSITKEDLE NGEDVATCPS CSLIIKVIYD KDQFVCGETV PAPSANKELV KC **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.**
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.
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).

Product Details

	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:	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 of 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:	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

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