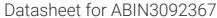
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EHD1 Protein (AA 1-534) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	EHD1
Protein Characteristics:	AA 1-534
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MFSWVSKDAR RKKEPELFQT VAEGLRQLYA QKLLPLEEHY RFHEFHSPAL EDADFDNKPM VLLVGQYSTG KTTFIRHLIE QDFPGMRIGP EPTTDSFIAV MHGPTEGVVP GNALVVDPRR PFRKLNAFGN AFLNRFMCAQ LPNPVLDSIS IIDTPGILSG EKQRISRGYD FAAVLEWFAE RVDRIILLFD AHKLDISDEF SEVIKALKNH EDKIRVVLNK ADQIETQQLM RVYGALMWSL GKIINTPEVV RVYIGSFWSH PLLIPDNRKL FEAEEQDLFK DIQSLPRNAA LRKLNDLIKR ARLAKVHAYI ISSLKKEMPN VFGKESKKKE LVNNLGEIYQ KIEREHQISP GDFPSLRKMQ ELLQTQDFSK FQALKPKLLD TVDDMLANDI ARLMVMVRQE ESLMPSQVVK GGAFDGTMNG PFGHGYGEGA GEGIDDVEWV VGKDKPTYDE IFYTLSPVNG KITGANAKKE MVKSKLPNTV LGKIWKLADV DKDGLLDDEE FALANHLIKV KLEGHELPAD LPPHLVPPSK RRHE

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.
- 2. 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

Product Details

	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:	EHD1
Alternative Name:	EHD1 (EHD1 Products)
Background:	EH domain-containing protein 1 (PAST homolog 1) (hPAST1) (Testilin),FUNCTION: ATP- and
	membrane-binding protein that controls membrane reorganization/tubulation upon ATP
	hydrolysis. In vitro causes vesiculation of endocytic membranes (PubMed:24019528). Acts in
	early endocytic membrane fusion and membrane trafficking of recycling endosomes
	(PubMed:15020713, PubMed:17233914, PubMed:20801876). Recruited to endosomal
	membranes upon nerve growth factor stimulation, indirectly regulates neurite outgrowth (By
	similarity). Plays a role in myoblast fusion (By similarity). Involved in the unidirectional
	retrograde dendritic transport of endocytosed BACE1 and in efficient sorting of BACE1 to axon
	implicating a function in neuronal APP processing (By similarity). Plays a role in the formation
	of the ciliary vesicle (CV), an early step in cilium biogenesis. Proposed to be required for the
	fusion of distal appendage vesicles (DAVs) to form the CV by recruiting SNARE complex
	component SNAP29. Is required for recruitment of transition zone proteins CEP290, RPGRIP1L
	TMEM67 and B9D2, and of IFT20 following DAV reorganization before Rab8-dependent ciliary
	membrane extension. Required for the loss of CCP110 form the mother centriole essential for
	the maturation of the basal body during ciliogenesis (PubMed:25686250).
	{ECO:0000250 UniProtKB:Q641Z6, ECO:0000250 UniProtKB:Q9WVK4,
	ECO:0000269 PubMed:15020713, ECO:0000269 PubMed:17233914,
	ECO:0000269 PubMed:20801876, ECO:0000269 PubMed:24019528,
	ECO:0000269 PubMed:25686250}.
Molecular Weight:	60.6 kDa
UniProt:	Q9H4M9
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development

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 guarantee though.
Comment:	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 post-translational 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!
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)

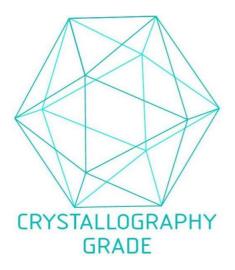


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process