

## Datasheet for ABIN3137547 EHD1 Protein (AA 1-534) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	EHD1
Protein Characteristics:	AA 1-534
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHD1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence:	<p>MFSWVSKDAR RKKEPELFQT VAEGLRQLYA QKLLPLEEHY RFHEFHSPAL EDADFDNKPM</p> <p>VLLVGQYSTG KTTFIRHLIE QDFPGMRIGP EPTTDSFIIV MHGPTTEGVVP GNALVVDPRR</p> <p>PFRKLNAFGN AFLNRFMCAQ LPNPVLDSIS IIDTPGILSG EKQRISRGYD FAAVLEWFAE</p> <p>RVDRIILLFD AHKLDISDEF SEVIKALKNH EDKIRVVLNK ADQIETQQLM RVIYALMWSL</p> <p>GKIINTPEVV RVIYGSFWSH PLLIPDNRKL FEAEQDLFK DIQSLPRNAA LRKLNDLIKR</p> <p>ARLAKVHAYI ISSLKKEMPN VFGKESKKKE LVNNLGEIYQ KIEREHQISS GDFPSLRKMQ</p> <p>ELLQTQDFSK FQALKPKLLD TVDDMLANDI ARLMVMVRQE ESLMPSQAVK GGAFDGTMNG</p> <p>PFGHGYGEA GEGIDDVWV VGKDKPTYDE IFYTLSPVNG KITGANAKKE MVKSKLPNTV</p> <p>LGKIWKADV DKDGLLDDEE FALANHLIKV KLEGHELPAD LPPHLIPPSK RRHE</p> <p><b>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</b></p>
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## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Mouse Ehd1 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
  - 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

- Purification:
- Two step purification of proteins expressed in bacterial culture:
1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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 Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade: Crystallography grade

## Target Details

Target:	EHD1
Alternative Name:	Ehd1 ( <a href="#">EHD1 Products</a> )
Background:	<p>ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis. In vitro causes vesiculation of endocytic membranes (By similarity). Acts in early endocytic membrane fusion and membrane trafficking of recycling endosomes (PubMed:15930129, PubMed:20159556). Recruited to endosomal membranes upon nerve growth factor stimulation, indirectly regulates neurite outgrowth (By similarity). Plays a role in myoblast fusion (PubMed:21177873). Involved in the unidirectional retrograde dendritic transport of endocytosed BACE1 and in efficient sorting of BACE1 to axons implicating a function in neuronal APP processing (PubMed:24373286). 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, RPGRIPL1, TMEM67 and B9D2, and of IFT20 following DAV reorganization before Rab8-dependent ciliary membrane extension. Required for the loss of CCP110 from the mother centriole essential for the maturation of the basal body during ciliogenesis (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q641Z6, ECO:0000250 UniProtKB:Q9H4M9, ECO:0000269 PubMed:15930129, ECO:0000269 PubMed:20159556, ECO:0000269 PubMed:21177873, ECO:0000269 PubMed:24373286}.</p>
Molecular Weight:	61.6 kDa Including tag.
UniProt:	<a href="#">Q9WVK4</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development</a>

## 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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process