

## Product datasheet for PH314168

### EHD3 (NM\_014600) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	EHD3 MS Standard C13 and N15-labeled recombinant protein (NP_055415)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214168
Predicted MW:	60.7 kDa
Protein Sequence:	>RC214168 representing NM_014600 Red=Cloning site Green=Tags(s)

MFSWLGTDDRRRKDPEVFQTVSEGLKLYKSKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTG  
KTTFIRYLLEQDFPGMRIGPEPTTDSFIIVMQGDMEGIIIPGNALVDPKPKFRKLNAFGNAFLNRFVCAQ  
LPNPVLESISVIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKKNH  
EDKMRVVLNKADQIETQQLMRVYGALMWSLGKIVNTPEVIRVYIGSFWSHPLLIPDNRKLFEEEQDLFR  
DIQSLPRNAALRKLNDLIKRRARLAKVHAYIISLKKEMPSVFGKDNKKELVNNLAEIYGRIEREHQISP  
GDFPNLKRMQDQLQAQDFSKFQPLKSKLLEVDDMLAHDIAQLMVLVRQEESQRP IQMVKGGAFEGTLHG  
PFGHGYGEGAGEGIDDAEWVVARDKPMYDEIFYTLSPVDGKITGANAKKEMVRSKLPNSVLGKIWKLADI  
DKDGMLDDDEFALANHLIKVKLEGHELPNELPAHLLPPSKRKVAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_055415</a></u>
RefSeq Size:	3583
RefSeq ORF:	1605



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**Synonyms:** PAST3

**Locus ID:** 30845

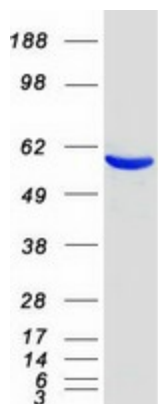
**UniProt ID:** [Q9NZN3](#)

**Cytogenetics:** 2p23.1

**Summary:** ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis (PubMed:25686250). In vitro causes tubulation of endocytic membranes (PubMed:24019528). Binding to phosphatidic acid induces its membrane tubulation activity (By similarity). Plays a role in endocytic transport. Involved in early endosome to recycling endosome compartment (ERC), retrograde early endosome to Golgi, and endosome to plasma membrane (rapid recycling) protein transport. Involved in the regulation of Golgi maintenance and morphology (PubMed:16251358, PubMed:17233914, PubMed:19139087, PubMed:23781025). Involved in the recycling of internalized D1 dopamine receptor (PubMed:21791287). Plays a role in cardiac protein trafficking probably implicating ANK2 (PubMed:20489164). Involved in the ventricular membrane targeting of SLC8A1 and CACNA1C and probably the atrial membrane localization of CACNA1GG and CACNA1H implicated in the regulation of atrial myocyte excitability and cardiac conduction (By similarity). In conjunction with EHD4 may be involved in endocytic trafficking of KDR/VEGFR2 implicated in control of glomerular function (By similarity). Involved in the rapid recycling of integrin beta-3 implicated in cell adhesion maintenance (PubMed:23781025). 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 (By similarity). Plays a role in the formation of the ciliary vesicle, an early step in cilium biogenesis; possibly sharing redundant functions with EHD1 (PubMed:25686250).[UniProtKB/Swiss-Prot Function]

**Protein Pathways:** Endocytosis

### Product images:



Coomassie blue staining of purified EHD3 protein (Cat# [TP314168]). The protein was produced from HEK293T cells transfected with EHD3 cDNA clone (Cat# [RC214168]) using MegaTran 2.0 (Cat# [TT210002]).