

Recombinant Mouse Ehd3 Protein, Myc/DDK-tagged

Cat. No. Ehd3-2765M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length EH-domain containing 3 (Ehd3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis. In vitro causes tubulation of endocytic membranes. Binding to phosphatidic acid induces its membrane tubulation activity. 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. Involved in the recycling of internalized D1 dopamine receptor. Plays a role in cardiac protein trafficking probably implicating ANK2. 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. In conjunction with EHD4 may be involved in endocytic trafficking of KDR/VEGFR2 implicated in control of glomerular function. Involved in the rapid recycling of integrin beta-3 implicated in cell adhesion maintenance. 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. Plays a role in the formation of the ciliary vesicle, an early step in cilium biogenesis; possibly sharing redundant functions

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	with Ehd1.
Molecular Mass	60.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ehd3 EH-domain containing 3 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ehd3
Synonyms	EHD3; EH-domain containing 3; EH domain-containing protein 3; EH-domain containing protein 2; Ehd2
Gene ID	57440
mRNA Refseq	NM_020578
Protein Refseq	NP_065603
UniProt ID	Q9QXY6

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