

Recombinant Human FXYP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FXYP1-3011H Lot. No. (See product label)

SPECIFICATION

Product Overview

FXYP1 MS Standard C13 and N15-labeled recombinant protein (NP_005022) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a member of a family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFXYP and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYP-domain containing ion transport regulator. Mouse FXYP5 has been termed RIC (Related to Ion Channel). FXYP2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYP1 (phospholemman), FXYP2 (gamma), FXYP3 (MAT-8), FXYP4 (CHIF), and FXYP5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXYP1 and FXYP2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. The protein encoded by this gene is a plasma membrane substrate for several kinases, including protein kinase A, protein kinase C, NIMA kinase, and myotonic dystrophy kinase. It is thought to form an ion channel or regulate ion channel activity. Transcript variants with different 5' UTR sequences have been described in the literature.

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Molecular Mass	10.4 kDa
AA Sequence	MASLGHILVFCVGLLTMAKAESPKEHDPFTYDYQSLQIGGLVIAGILFILGILIVLSRRC RCKFNQQQRTGEPDEEEGTFRSSIRRLSTRRRTRTRPLEQKLISEEDLAANDILDYK DDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FXYP1 FXYP domain containing ion transport regulator 1 [Homo sapiens (human)]
Official Symbol	FXYP1
Synonyms	FXYP1; FXYP domain containing ion transport regulator 1; phospholemma, PLM; phospholemma; PLM; MGC44983;
Gene ID	5348
mRNA Refseq	NM_005031
Protein Refseq	NP_005022

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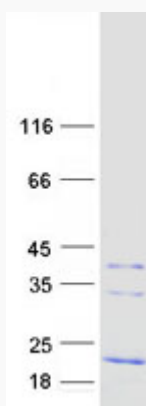
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MIM 602359

UniProt ID O00168

SDS-PAGE



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