

Recombinant Human FXYP1, GST-tagged

Cat. No. FXYP1-13054H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FXYP1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-92a.a.
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 (phospholemmann), 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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Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.
GENE INFORMATION	
Gene Name	FXYP1 FXYP domain containing ion transport regulator 1 [Homo sapiens]
Official Symbol	FXYP1
Synonyms	FXYP1; FXYP domain containing ion transport regulator 1; phospholemman , PLM; phospholemman; PLM; MGC44983;
Gene ID	5348
mRNA Refseq	NM_005031
Protein Refseq	NP_005022
MIM	602359
UniProt ID	O00168
Chromosome Location	19q13.1
Function	chloride channel activity; ion channel activity;

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