

Product datasheet for PH307475

FXVD1 (NM_005031) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FXVD1 MS Standard C13 and N15-labeled recombinant protein (NP_005022)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207475
Predicted MW:	10.4 kDa
Protein Sequence:	>RC207475 protein sequence Red =Cloning site Green =Tags(s) MASLGHILVFCVGLLTMKAESPKEHDPFTYDQSLQIGGLVIAGILFILGILIVLSRRRCCKFNQQRT GEPDEEEGTFRSSIRRLSTRRR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_005022
RefSeq Size:	599
RefSeq ORF:	276
Synonyms:	PLM
Locus ID:	5348
UniProt ID:	O00168
Cytogenetics:	19q13.12



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Summary:

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 PFXYD and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYD-domain containing ion transport regulator. Mouse FXYD5 has been termed RIC (Related to Ion Channel). FXYD2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYD1 (phospholemman), FXYD2 (gamma), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXYD1 and FXYD2), 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. [provided by RefSeq, Jul 2008]

Protein Families:

Ion Channels: Other, Transmembrane

Product images:

Coomassie blue staining of purified FXYD1 protein (Cat# [TP307475]). The protein was produced from HEK293T cells transfected with FXYD1 cDNA clone (Cat# [RC207475]) using MegaTran 2.0 (Cat# [TT210002]).