

Product datasheet for PH319825

FAM107A (NM_007177) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FAM107A MS Standard C13 and N15-labeled recombinant protein (NP_009108)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219825
Predicted MW:	17.5 kDa
Protein Sequence:	<p>>RC219825 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MYSEIQRERADIGGLMARPEYREWNPELIKPKLLNPVKASRSHQELHRELLMNHRRGLGVDSKPELQRV LEHRRRNQLIKKKKEELEAKRLQCPFEQELLRRQQRLNQLEKPPEKEEDHAPEFIKVRENLRRIATLTSE EREL</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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:	<u>NP_009108</u>
RefSeq Size:	3488
RefSeq ORF:	432
Synonyms:	DRR1; TU3A
Locus ID:	11170
UniProt ID:	<u>O95990</u> , <u>Q6IAM1</u>

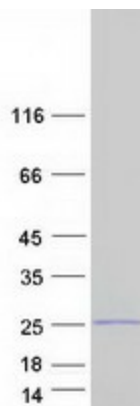


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Cytogenetics: 3p14.3-p14.2

Summary: Stress-inducible actin-binding protein that plays a role in synaptic and cognitive functions by modulating actin filamentous (F-actin) dynamics. Mediates polymerization of globular actin to F-actin. Also binds to, stabilizes and bundles F-actin. Involved in synaptic function by regulating neurite outgrowth in an actin-dependent manner and for the acquisition of hippocampus-dependent cognitive function, such as learning and long-term memory (By similarity). Plays a role in the actin and microtubule cytoskeleton organization; negatively regulates focal adhesion (FA) assembly promoting malignant glial cell migration in an actin-, microtubule- and MAP1A-dependent manner (PubMed:20543869). Also involved in neuroblastoma G1/S phase cell cycle progression and cell proliferation inhibition by stimulating ubiquitination of NF-kappa-B subunit RELA and NF-kappa-B degradation in a COMMD1- and actin-dependent manner (PubMed:10564580, PubMed:28604741). May play a role in tumor development (PubMed:10564580).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified FAM107A protein (Cat# [TP319825]). The protein was produced from HEK293T cells transfected with FAM107A cDNA clone (Cat# [RC219825]) using MegaTran 2.0 (Cat# [TT210002]).