

Product datasheet for PH324064

AIF (AIFM1) (NM_004208) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AIFM1 MS Standard C13 and N15-labeled recombinant protein (NP_004199)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224064
Predicted MW:	66.7 kDa
Protein Sequence:	>RC224064 representing NM_004208 Red=Cloning site Green=Tags(s)

MFRCGGLAAGALKQKLVPLVRTVCVRSRQRNRLPGNLFQRWHVPLELQMTRQMASSGASGGKIDNSVLV
LIVGLSTVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLIIGGG
TAAFAAARSIRARDPGARVLIVSEDPPELPMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSF
YVSAQDLPHIENGGVAVLTGKKVVQLDVRDNMVKLNDGSQITYEKCLIAATGGTPRSLAIDRAGAEVKSR
TTLFRKIGDFRSLEKISREVKSTITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSN
WTMEKVRREGVKVMPNAIVQSVGVSSGKLLIKLDGRKVEDHIVAAGLEPNVELAKTGGLEIDSDFGG
FRVNAELQARSNIWVAGDAACFYDIKLRRRVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDV
GYEAIGLVDSSLPTVGVFAKATAQDNPKSATEQSGTGIRSESETESEASEITIPPSTPAVPQAPVQGEDY
GKGVIFYLRDKVVVGVIVLWNIFNRMPIARKIIKDGEGHEDLNEVAKLFNIHED

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_004199
RefSeq Size:	2215
RefSeq ORF:	1839



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Synonyms: AIF; AUNX1; CMT2D; CMTX4; COWCK; COXPD6; DFNX5; NADMR; NAMSD; PDCD8; SEMDHL

Locus ID: 9131

UniProt ID: [O95831](#)

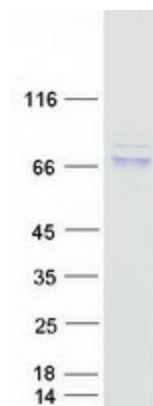
Cytogenetics: Xq26.1

Summary: This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6 (COXPD6), a severe mitochondrial encephalomyopathy, as well as Cowchock syndrome, also known as X-linked recessive Charcot-Marie-Tooth disease-4 (CMTX-4), a disorder resulting in neuropathy, and axonal and motor-sensory defects with deafness and cognitive disability. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10. [provided by RefSeq, Aug 2015]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Apoptosis

Product images:



Coomassie blue staining of purified AIFM1 protein (Cat# [TP324064]). The protein was produced from HEK293T cells transfected with AIFM1 cDNA clone (Cat# [RC224064]) using MegaTran 2.0 (Cat# [TT210002]).