

## Product datasheet for PH310668

### AIF (AIFM1) (NM\_145812) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	AIFM1 MS Standard C13 and N15-labeled recombinant protein (NP_665811)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210668
Predicted MW:	66.1 kDa
Protein Sequence:	>RC210668 representing NM_145812 Red=Cloning site Green=Tags(s)

MFRCGGLAAGALKQKLVPLVRTVCVRSRQRNRLPVVQSHHLGSPSRSLASTGASGKDGSNLVYFLIVGA  
TVTGAGVYYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAAF  
AAARSIRARDPGARVLIVSEDPPELPMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSA  
QDLPHIENGGVAVLTGKKVVQLDVRDNMVKLNDSQITYEKCLIAATGGTPRSLAIDRAGAEVKSRTTLF  
RKIGDFRSLEKISREVKSIITIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTME  
KVRREGVKVMPNAIVQSVGVSSGKLLIKLKDGRKVEDTHIVAAVGLEPNVELAKTGGLEIDSDFGGFRVN  
AELQARSNIWVAGDAACFYDIKLRRRRVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEA  
IGLVDSLPTVGVFAKATAQDNPKSATEQSGTGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGKGV  
IFYLRDKVVVGVIVLWNIFNRMPIARKI IKDGEQHEDLNEVAKLFNIHED

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<a href="#">NP_665811</a>
RefSeq Size:	2203
RefSeq ORF:	1827



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

**Locus ID:** 9131

**UniProt ID:** [O95831](#)

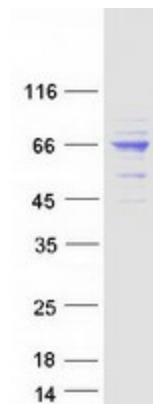
**Cytogenetics:** Xq26.1

**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# [TP310668]). The protein was produced from HEK293T cells transfected with AIFM1 cDNA clone (Cat# [RC210668]) using MegaTran 2.0 (Cat# [TT210002]).