

## Product datasheet for **TP310668L**

### AIF (AIFM1) (NM\_145812) Human Recombinant Protein

#### Product data:

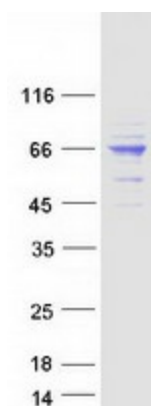
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human apoptosis-inducing factor, mitochondrion-associated, 1 (AIFM1), nuclear gene encoding mitochondrial protein, transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210668 representing NM_145812 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MFRCGGLAAGALKQKLVPLVRTVCVRSRQRNRLPVVQSHHLGSPSRSLASTGASGKDGSNLVYFLIVGA TVTGAAGVYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLIGGGTAAF AAARSIRARDPGARVLIVSEDEPELPMRPLSKELWFSDDPNVTKLRFKQWNGKERSIYFQPPSFYVSA QDLPHIENGGVAVLTGKKVQLDVRDNMVKLNDGSQITYEKLIATGGTTPRSLAIDRAGAIEVKSRTTLF RKIGDFRSLEKISREVKSITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTME KVRREGVKVMPNAIVQSVGVSSGKLLIKLDGRKVETDHIVAAGLEPNVELAKTGGLEIDSDFGGFRVN AELQARSNIWVAGDAACFYDIKLGRRRVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEA IGLVDSLLPTVGVFAKATAQDNPKSATEQSGTGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGGKV IFYLRDKVVVGIVLWNIFNRMPIARKIIKDGEQHEDLNEVAKLFNIHED</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	66.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_665811</a>
<b>Locus ID:</b>	9131
<b>UniProt ID:</b>	<a href="#">O95831</a>
<b>RefSeq Size:</b>	2203
<b>Cytogenetics:</b>	Xq26.1
<b>RefSeq ORF:</b>	1827
<b>Synonyms:</b>	AIF; AUNX1; CMT2D; CMTX4; COWCK; COXPD6; DFNX5; NADMR; NAMSD; PDCD8; SEMDHL
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	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]).