

Recombinant Human AIFM1, His-tagged

Cat. No. AIFM1-5102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AIFM1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Apoptosis-inducing factor 1, mitochondrial isoform 2 precursor, also known as AIFM1, is a mitochondrial protein that translocates to the nucleus upon induction of apoptosis. AIFM1 has been shown to cause DNA fragmentation and chromatin condensation and to induce the release of cytochrome c and caspase-9 from mitochondria. Bcl-2 overexpression has been shown to prevent the release of AIFM1 from mitochondria, but not to block its apoptogenic activity. Mutations in this gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Mass	58.5 kDa (537aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFLGLTP EQKQKKAALS ASEGEEVPQD KAPSHVPFLL IGGGTAAFAA ARSIRARDPG ARVLIVSEDP ELPYMRPPLS KELWFSDDPN VTKTLRFKQW NGKERSIYFQ PPSFYVSAQD LPHIENGGA VLTGKKVVQL DVRDNMVKLN DGSQITYEKC LIATGGTPRS LSAIDRAGAE VKSRTTLFRK IGDFRSLEKI SREVKSTITI GGGFLGSELA CALGRKARAL

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GTEVIQLFPE KGNMGKILPE YLSNWTMEKV RREGVKVMPN AIVQSVGVSS
 GKLLIKLKDG RKVETDHIVA AVGLEPNVEL AKTGGLEIDS DFGGFRVNAE
 LQARSNIWVA GDAACFYDIK LGRRRVEHHD HAVVSGRLAG ENMTGAAKPY
 WHQSMFWSDL GPDVGYEAG LVDSSLPTVG VFAKATAQDN PKSATEQSGT
 GIRSESETES EASEITIPPS TPAVPQAPVQ GEDYGKGVIF YLRDKVVVGI
 VLWNIFNRMP IARKIIKDGE QHEDLNEVAK LFNIHED

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [AIFM1 apoptosis-inducing factor, mitochondrion-associated, 1 \[Homo sapiens \]](#)

Official Symbol AIFM1

Synonyms AIFM1; apoptosis-inducing factor, mitochondrion-associated, 1; PDCD8, programmed cell death 8 (apoptosis inducing factor); apoptosis-inducing factor 1, mitochondrial; AIF; striatal apoptosis-inducing factor; programmed cell death 8 (apoptosis-inducing factor); PDCD8; COXPD6; MGC111425;

Gene ID [9131](#)

mRNA Refseq [NM_001130846](#)

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Protein Refseq	NP_001124318
MIM	300169
UniProt ID	O95831
Chromosome Location	Xq26.1
Pathway	Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis Modulation by HSP70, organism-specific biosystem; Ceramide signaling pathway, organism-specific biosystem;
Function	DNA binding; electron carrier activity; flavin adenine dinucleotide binding; oxidoreductase activity; protein binding;

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