

Recombinant Human apoptosis-inducing factor, mitochondrion-associated, 1, His-tagged

Cat. No. AIFM1-501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AIFM1, 98-609aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	98-609 a.a.
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. Recombinant human AIFM1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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

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KAPSHVPFLL IGGGTAAFAA ARSIRARDPG ARVLIVSEDP ELPYMRPPLS
 KELWFSDDPN VTKTLRFKQW NGKERSIYFQ PPSFYVSAQD LPHIENGGVA
 VLTGKKVVQL DVRDNMVKLN DGSQITYEKC LIATGGTPRS LSAIDRAGAE
 VKSRTTLFRK IGDFRSLEKI SREVKSITII GGGFLGSELA CALGRKARAL
 GTEVIQLFPE KGNMGKILPE YLSNWTMEKV RREGVKVMPN AIVQSVGVSS
 GKLLIKLDKG 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

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. 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](#)

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mRNA Refseq	NM_001130846
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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