

Product information



AIFM1, 98-609aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2598

Full name: Apoptosis-inducing factor 1, mitochondrial isoform 2 precursor **NCBI Accession No.:** NP_665811

Synonyms: AIF, CMTX4, COWCK, COXPD6, PDCD8

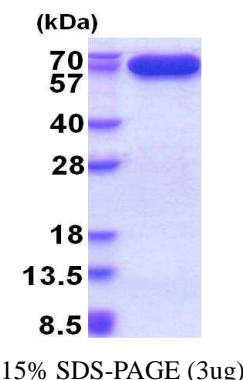
Description: Apoptosis-inducing factor 1, mitochondrial isoform 2 precursor, also known as AIFM1, is a mitochondrial protein that translocates to the nucleus upon induction of apoptosis. AIFM1 has been shown to cause DNA fragmentation and chromatin condensation and to induce the release of cytochrome 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 Weight: 58.5 kDa (537aa)

Purity: > 95% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSEFLGLTP EQKQKKAALS ASEGEEVPQD KAPSHVPFLL IGGGTAFAAA ARSIRARDPG ARVLIVSEDP
ELPYMRPPLS KELWFSDDPN VTKTLRFKQW NGKERSIYFQ PPSFYVSAQD LPHIENGGVA VLTGKKVVQL DVRDNMVKLN DGSQITYEKC
LIATGGTPRS LSAIDRAGAE VKSRTTLFRK IGDFRSLEKI SREVKSITII GGGFLGSELA CALGRKARAL GTEVIQLFPE KGNMGKILPE
YLSNWTMEKV RREGVKVMPN AIVQSVGVSS GKLLIKLKDQ RKVETDHIVA AVGLEPNVEL AKTGGLIDS DFGGFRVNAE LQARSNIWVA
GDAACFYDIK LGRRRVEHHD HAVVSGRLAG ENMTGAAKPY WHQSMFWSDL GPDVGYEAIG LVDSSLPTVG VFAKATAQDN PKSATEQSGT
GIRSESETES EASEITIPPS TPAVPQAPVQ GEDYGKGVIF YLRDKVVVGI VLWNIENRMP IARKIKDGE QHEDLNEVAK LFNIHED

General references:

Zamzami N., *et al.* (1996) *J Exp Med.* 183: 1533-1544.

Susin S A., *et al.* (1996) *J Exp Med.* 184: 1331-1341.

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com