

Recombinant human AIF protein

Catalog Number: ATGP2598

PRODUCT INFORMATION

Expression system

E.coli

Domain

98-609aa

UniProt No.

O95831

NCBI Accession No.

NP_665811

Alternative Names

Apoptosis-inducing factor 1 mitochondrial isoform 2 precursor, Apoptosis-inducing factor 1, mitochondrial isoform 2 precursor, AIF, CMTX4, COWCK, COXPD6, PDCD8

PRODUCT SPECIFICATION

Molecular Weight

58.5 kDa (537aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSEF>LGLTP EQKQKKAALS ASEGEEVPQD KAPSHVPFLL IGGGTAFAAA
ARSIRARDPG ARVLIVSEDP ELPYMRPPLS KELWFSDDPN VTKTLRFKQW NGKERSIYFQ PPSFYVSAQD LPHIENGGVA
VLTGKKVVQL DVRDNMVKLN DGSQITYEKC LIATGGTPRS LSAIDRAGAE VKSRTTLFRK IGDFRSLEKI SREVKSTITI
GGGFLGSELA CALGRKARAL GTEVIQLFPE KGNMGKILPE YLSNWTMEKV RREGVKVMPN AIVQSVGVSS GKLLIKLKD
RKVETDHIVA AVGLEPNVEL AKTGGLEIDS DFGGFRVNAE LQARSNIWVA GDAACFYDIK LGRRRVEHHD HAVVSGRLAG
ENMTGAAKPY WHQSMFWSDL GPDVGYEAIG LVDSSLPTVG VFAKATAQDN PKSATEQSGT GIRSESETES EASEITIPPS
TPAVPQAPVQ GEDYGKGVIF YLRDKVVVGI VLWNIFNRMP IARKIIKDGE QHEDLNEVAK LFNHED

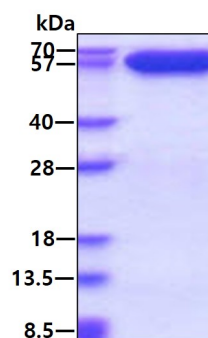
General References

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

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

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.