



Recombinant Human Apoptosis-inducing factor 1, mitochondrial (AIFM1), partial

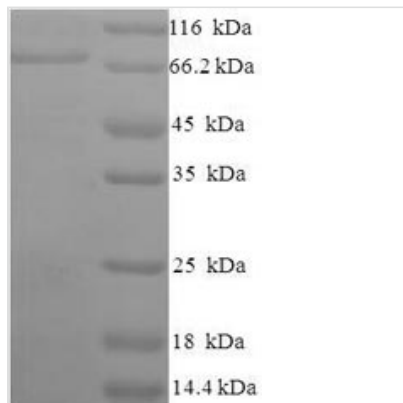
Product Code	CSB-EP001492HU
Relevance	Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates casapase-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner.
Abbreviation	Recombinant Human AIFM1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O95831
Alias	Programmed cell death protein 8
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAFAAAARSIRARDP GARVLIVSEDPPELPMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPP SFYVSAQDLPHIENGGVAVLTGKKVVQLDVRDNMVKLNDGSQITYEKCLIATG GTPRSLSAIDRAGAEVKSRITTLFRKIGDFRSLEKISREVKSIITIGGGFLGSELAC ALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQ SVGVSSGKLLIKLDGRKVETDHIVAAGLEPNVELAKTGGLEIDSDFGGFRVN AELQARSNIWVAGDAACFYDIKLGRRRVEHHDHAVVSGRLAGENMTGAAPY WHQSMFWSDLGPDVGYEAGLVDSSLPTVGVFAKATAQDNPKSATEQSGTGI RSESETESEASEITIPPSTPAVPQAPVQGEDYGKGVIIFYLRDKVVVGIVLWNIFN RMPIARKIIKDGEQHEDLNEVAKLFNIHE
Research Area	Apoptosis
Source	E.coli
Target Names	AIFM1
Expression Region	103-612aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	71.6kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.