

Recombinant Human AIFM1/AIF Protein

Catalog No.: RP02856LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	9131	O95831-1

Tags

N-His

Synonyms

Apoptosis-Inducing Factor 1
Mitochondrial; Programmed Cell Death
Protein 8; AIFM1; AIF; PDCD8;AIFM1/AIF

Product Information

Source	Purification
E.coli	> 95% by SDS- PAGE.

Endotoxin

<1EU/μg

Formulation

Supplied as a 0.2 μm filtered solution of
PBS, 50% Glycerol, 2mM EDTA, 0.5M
Argine, 5% Trehalose, pH 7.4.

Reconstitution

Background

Apoptosis-Inducing Factor 1, Mitochondrial (AIFM1) is a flavoprotein essential for nuclear disassembly in apoptotic cells that is found in the mitochondrial intermembrane space in healthy cells. During apoptosis, it is translocated from the mitochondria to the nucleus to function as a proapoptotic factor in a caspase-independent pathway, while in normal mitochondria, it functions as an antiapoptotic factor via its oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces parthanatos i.e., caspase-independent fragmentation of chromosomal DNA. AIFM1 interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis. It binds to DNA in a sequence-independent manner and plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells.

Basic Information

Description

Recombinant Human AIFM1/AIF Protein is produced by E.coli expression system. The target protein is expressed with sequence (Glu121-Asp613) of human AIFM1/AIF (Accession #NP_004199.1) fused with a His tag at the N-terminus.

Bio-Activity

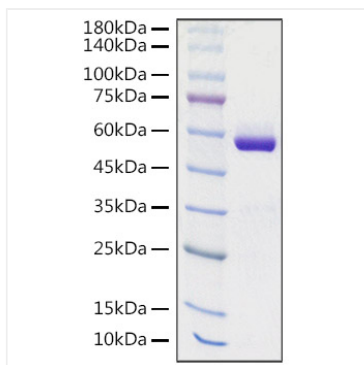
Storage

This product is stable at ≤ -70°C for up to 6 months from the date of receipt, stable for 3 months under sterile conditions after opening.
For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature, avoid freeze-thaw repeats.
Avoid repeated freeze/thaw cycles.

Contact

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Validation Data



Recombinant Human AIFM1/AIF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.