Recombinant Human AIFM1/AIF Protein

Catalog No.: RP02856LQ

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Sequence Information

Species
Human

Gene ID
9131

Swiss Prot
O95831-1

Tags
N-His

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

Product Information

Source
E.coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
56.2 kDa

Observed MW
68 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

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 casapse-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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

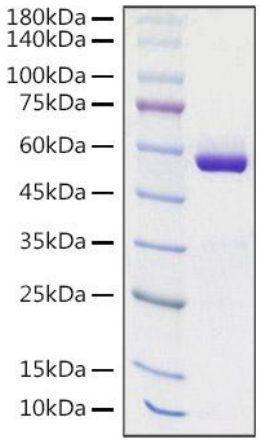
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human AIFM1/AIF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.