Recombinant Human AIFM1 Protein, His-tagged

Cat. No. AIFM1-313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AIFM1(Glu121-Asp613), transcript variant 4, fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu121-Asp613
Description	This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6 (COXPD6), a severe mitochondrial encephalomyopathy, as well as Cowchock syndrome, also known as X-linked recessive Charcot-Marie-Tooth disease-4 (CMTX-4), a disorder resulting in neuropathy, and axonal and motor-sensory defects with deafness and mental retardation. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10.
Form	Lyophilized from a 0.2 μM filtered solution of 20mM Phosphate buffer, 150mM NaCl, pH 7.2.
Molecular Mass	56.2 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.1 EU per μg protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Storage	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Concentration	Resuspend the protein to the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	AIFM1 apoptosis-inducing factor, mitochondrion-associated, 1 [Homo sapiens]
Official Symbol	AIFM1
Synonyms	AIFM1; apoptosis-inducing factor, mitochondrion-associated, 1; PDCD8, programmed cell death 8 (apoptosis inducing factor); apoptosis-inducing factor 1, mitochondrial; AIF; striatal apoptosis-inducing factor; programmed cell death 8 (apoptosis-inducing factor); PDCD8; COXPD6; MGC111425;
Gene ID	9131
mRNA Refseq	NM_001130846
Protein Refseq	NP_001124318
MIM	300169
UniProt ID	O95831

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