Datasheet for ABIN7505526

AIF Protein (AA 150-299) (His tag)

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Overview

Quantity:	100 µg
Target:	AIF (AIFM1)
Protein Characteristics:	AA 150-299
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AIF protein is labelled with His tag.

Product Details

Sequence:	Arg 150-Val 299
Characteristics:	A DNA sequence encoding the Rat AIF-M1 protein (Q9JM53) (Arg 150-Val 299) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	AIF (AIFM1)
Alternative Name:	AIF-M1 (AIFM1 Products)
Background:	Abbreviation: AIF-M1 Target Synonym: AIFM1,Apoptosis inducing factor 1,mitochondrial,Apoptosis inducing factor,CMTX4,COWCK,COXPD6,Harlequin,mitochondrial,PDCD 8,Programmed cell death 8,Striatal apoptosis inducing factor

Target Details

	Background: Probable oxidoreductase that has a dual role in controlling cellular life and death, 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. Interacts with EIF3G,and thereby inhibits the EIF3 machinery and protein synthesis, and activates casapse-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.
Molecular Weight:	Calculated MW: 16.39 kDa Observed MW: 18 kDa
UniProt:	Q9JM53
Pathways:	Apoptosis, Positive Regulation of Endopeptidase Activity, Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Warburg Effect

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months