

Recombinant Rat Aifm1 Protein, His-tagged

Cat. No. Aifm1-104R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Aifm1 Protein (Pro334-Asn608) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Pro334-Asn608
Description	Predicted to enable DNA binding activity; FAD binding activity; and NAD(P)H oxidase H2O2-forming activity. Involved in several processes, including cellular response to lipid; cellular response to nitric oxide; and cellular response to oxygen-glucose deprivation. Located in cytosol; mitochondrion; and nucleus. Biomarker of middle cerebral artery infarction; retinal detachment; retinitis pigmentosa; and transient cerebral ischemia. Human ortholog(s) of this gene implicated in Charcot-Marie-Tooth disease X-linked recessive 4; X-linked deafness 5; and combined oxidative phosphorylation deficiency 6. Orthologous to several human genes including TXNDC12 (thioredoxin domain containing 12).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Aifm1 apoptosis inducing factor, mitochondria associated 1 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Aifm1
Synonyms	Aifm1; apoptosis inducing factor, mitochondria associated 1; Aif; Pdcd8; apoptosis-inducing factor 1, mitochondrial; apoptosis-inducing factor 1, mitochondrial-like; apoptosis-inducing factor, mitochondrion-associated 1; programmed cell death 8 (apoptosis-inducing factor); programmed cell death protein 8; EC 1.1.1.-
Gene ID	83533
mRNA Refseq	NM_031356
Protein Refseq	NP_112646

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UniProt ID

Q9JM53

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