

## Recombinant Rat Aifm1 Protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Aifm1 Protein (Pro334-Asn608) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Pro334-Asn608                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 30 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b> | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Aifm1 apoptosis inducing factor, mitochondria associated 1 [ Rattus norvegicus (Norway rat) ]</a>                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | <a href="#">Aifm1</a>                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | 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.- |
| <b>Gene ID</b>         | <a href="#">83533</a>                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | <a href="#">NM_031356</a>                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | <a href="#">NP_112646</a>                                                                                                                                                                                                                                                                                                     |

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UniProt ID

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