

Recombinant Mouse Eif2ak3 protein, His & T7-tagged

Cat. No. Eif2ak3-1392M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Eif2ak3 aa. (Met973~Asn1114 (Accession # Q9Z2B5) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Met973~Asn1114
Description	The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. Mutations in a similar gene in human are associated with Wolcott-Rallison syndrome.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.9kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%

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Characteristic	The isoelectric point is 7.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Eif2ak3 eukaryotic translation initiation factor 2 alpha kinase 3 [Mus musculus (house mouse)]
Official Symbol	Eif2ak3
Synonyms	Eif2ak3; eukaryotic translation initiation factor 2 alpha kinase 3; Pek; Perk; eukaryotic translation initiation factor 2-alpha kinase 3; PRKR-like endoplasmic reticulum kinase; pancreatic eIF2-alpha kinase
Gene ID	13666

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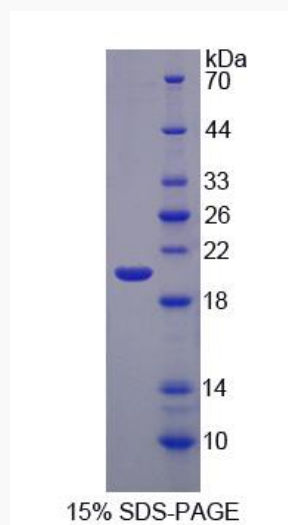
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mRNA Refseq NM_001313918.1

Protein Refseq NP_001300847.1

UniProt ID Q9Z2B5

SDS-PAGE



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