Recombinant Mouse Eif2ak3 Protein, Myc/DDK-tagged

Cat. No. Eif2ak3-2772M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length eukaryotic translation initiation factor 2 alpha kinase 3 (Eif2ak3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 malfolded proteins. Mutations in a similar gene in human are associated with Wolcott-Rallison syndrome.
Molecular Mass	125.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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

Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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; eukaryotic translation initiation factor 2-alpha kinase 3; pancreatic eIF2-alpha kinase; PRKR-like endoplasmic reticulum kinase; Pek; Perk; AI427929
Gene ID	13666
mRNA Refseq	NM_010121
Protein Refseq	NP_034251
UniProt ID	Q7TQC8

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