

Recombinant Mouse Eif2ak1 Protein, His-tagged

Cat. No. Eif2ak1-1411M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Eif2ak1 Protein (Phe167-Phe580) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Phe167-Phe580
Description	Enables heme binding activity; protein homodimerization activity; and protein kinase activity. Involved in negative regulation of cell population proliferation and negative regulation of hemoglobin biosynthetic process. Acts upstream of or within several processes, including macrophage differentiation; protoporphyrinogen IX metabolic process; and regulation of cellular macromolecule biosynthetic process. Located in cytoplasm. Is expressed in alimentary system; central nervous system; liver; nervous system; and spinal cord. Orthologous to human EIF2AK1 (eukaryotic translation initiation factor 2 alpha kinase 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 50.2 kDa Accurate Molecular Mass: 50 kDa
Purity	> 90%

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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, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Eif2ak1 eukaryotic translation initiation factor 2 alpha kinase 1 [Mus musculus (house mouse)]
Official Symbol	Eif2ak1
Synonyms	EIF2AK1; eukaryotic translation initiation factor 2 alpha kinase 1; eukaryotic translation initiation factor 2-alpha kinase 1; heme-regulated inhibitor; heme-controlled repressor; hemin-sensitive initiation factor 2-alpha kinase; heme-regulated eukaryotic initiation factor eIF-2-alpha kinase; HCR; Hri; MGC118066;
Gene ID	15467
mRNA Refseq	NM_013557
Protein Refseq	NP_038585

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UniProt ID

Q9Z2R9

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