

Recombinant Human Eukaryotic Translation Initiation Factor 2 Alpha Kinase 4, GST-tagged

Cat. No. EIF2AK4-1011H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF2AK4 (192-1024) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	192-1024 a.a.
Description	EIF2AK4 or eukaryotic translation initiation factor 2 alpha kinase 4 belongs to a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor-2 to downregulate protein synthesis in response to varied cellular stresses. The EIF2AK4 eIF2-alpha kinase regulates fatty-acid homeostasis in the liver during deprivation of an essential amino acid.
Applications	Kinase Assay; Western Blot
Molecular Weight	132 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Specific Activity	14 nmol/min/mg
Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	192-1024
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Hepatitis C; Herpes simplex infection; Influenza A; Measles; Protein processing in endoplasmic reticulum

GENE INFORMATION

Gene Name	EIF2AK4 eukaryotic translation initiation factor 2 alpha kinase 4 [Homo sapiens]
Official Symbol	EIF2AK4
Synonyms	EIF2AK4; eukaryotic translation initiation factor 2 alpha kinase 4; GCN2; KIAA1338; eukaryotic translation initiation factor 2-alpha kinase 4; GCN2-like protein; GCN2 eIF2alpha kinase; NP_001013725.2; EC 2.7.11.1
Gene ID	440275
mRNA Refseq	NM_001013703
Protein Refseq	NP_001013725

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MIM	609280
UniProt ID	Q9P2K8
Chromosome Location	15q15.1
Function	ATP binding; aminoacyl-tRNA ligase activity; nucleotide binding; protein homodimerization activity; protein serine/threonine kinase activity

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