

Recombinant Human EIF2AK4

Cat. No. EIF2AK4-28160TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human GCN2 with proprietary tag, 36.63kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	EIF2AK4 belongs to a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor-2 (EIF2S1; MIM 603907) to downregulate protein synthesis in response to varied cellular stresses (Berlanga et al.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Widely expressed.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	YETQVQTRLQTSLANLHQKSSEIEILAVDLPKETILQFLSLEWDADEQAFNTTVKQLL SRLPKQRYLKLVCDEIYNIKVEKKVSVLFLYSYRDDYYRILF
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily. Contains 2 protein kinase domains. Contains 1 RWD domain.
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; eukaryotic translation initiation factor 2-alpha kinase 4; GCN2; KIAA1338;
Gene ID	440275
mRNA Refseq	NM_001013703
Protein Refseq	NP_001013725
MIM	609280
Uniprot ID	Q9P2K8
Chromosome Location	15q13.3
Pathway	Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; Influenza A, organism-specific biosystem;

Function

ATP binding; aminoacyl-tRNA ligase activity; eukaryotic translation initiation factor
2alpha kinase activity; nucleotide binding; protein homodimerization activity;

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