

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;

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Function

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

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