Recombinant Human EIF2AK2, GST-tagged, Active

Cat. No. EIF2AK2-298H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF2AK2 (252-end) was expressed by baculovirus in*Sf9 insect cell*susing an N-terminal GST tag. MW=64 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	252-end a.a.
Description	EIF2AK2 (also known as double-stranded RNA-activated protein kinase) is a protein kinase that has been shown to be involved in HIV/gp120-associated neurodegeneration. EIF2AK2 acts as a critical mediator of gp120 neurotoxicity and is a substrate for a family of protein kinases that respond to various forms of environmental stress. Activation of EIF2AK2 leads to its autophosphorylation and then phosphorylation of its natural substrate, the alpha subunit of eukaryotic protein synthesis initiation factor-2. EIF2AK2 plays a critical role in mRNA translation, cell proliferation and apoptosis. A novel cross-talk between the EIF2AKs and p53 has been shown that has implications in cell proliferation and tumorigenesis.
Sequence	252-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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	performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	EIF2AK2 eukaryotic translation initiation factor 2-alpha kinase 2 [Homo sapiens]
Synonyms	EIF2AK2; eukaryotic translation initiation factor 2-alpha kinase 2; OTTHUMP00000201320; double stranded RNA activated protein kinase; interferon-inducible elF2alpha kinase; protein kinase, interferon-inducible double stranded RNA dependent; EC 2.7.11.1
Gene ID	5610
mRNA Refseq	NM_001135651
Protein Refseq	NP_001129123
MIM	176871
UniProt ID	P19525
Chromosome Location	2p22-p21
Pathway	Influenza Infection
Function	ATP binding;double-stranded RNA binding; eukaryotic translation initiation factor 2alpha kinase activity; nucleotide binding; protein binding; protein phosphatase type 2A regulator activity; transferase activity

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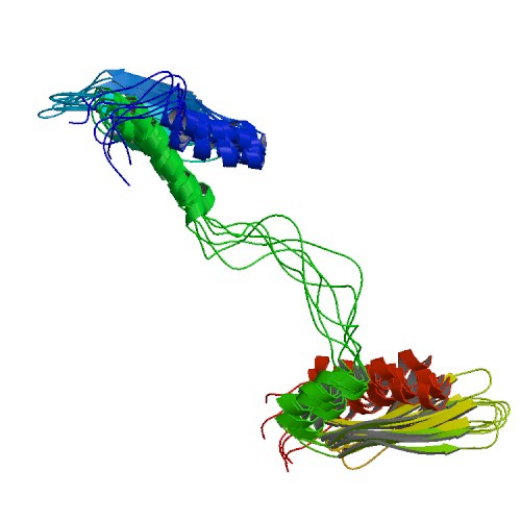
Eukaryotic translation initiation factor 2-alpha kinase 2.



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