

## Recombinant Human EIF2AK2, His-tagged

**Cat. No.** EIF2AK2-12350H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EIF2AK2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-373a.a.
<b>Description</b>	The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

### GENE INFORMATION

**Gene Name**                      EIF2AK2 eukaryotic translation initiation factor 2-alpha kinase 2 [ Homo sapiens ]

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<b>Official Symbol</b>	EIF2AK2
<b>Synonyms</b>	EIF2AK2; eukaryotic translation initiation factor 2-alpha kinase 2; PRKR, protein kinase, interferon inducible double stranded RNA dependent; interferon-induced, double-stranded RNA-activated protein kinase; EIF2AK1; PKR; p68 kinase; eIF-2A protein kinase 2; P1/eIF-2A protein kinase; tyrosine-protein kinase EIF2AK2; interferon-inducible eIF2alpha kinase; double stranded RNA activated protein kinase; protein kinase, interferon-inducible double stranded RNA dependent; PRKR; MGC126524;
<b>Gene ID</b>	<a href="#">5610</a>
<b>mRNA Refseq</b>	<a href="#">NM_001135651</a>
<b>Protein Refseq</b>	<a href="#">NP_001129123</a>
<b>MIM</b>	<a href="#">176871</a>
<b>UniProt ID</b>	<a href="#">P19525</a>
<b>Chromosome Location</b>	2p22-p21
<b>Pathway</b>	Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Ceramide signaling pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Disease, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem;
<b>Function</b>	ATP binding; double-stranded RNA binding; eukaryotic translation initiation factor 2alpha kinase activity; non-membrane spanning protein tyrosine kinase activity;

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nucleotide binding; protein binding; protein kinase activity; protein phosphatase type  
2A re

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