

## Active Recombinant Human EIF2AK4 Protein, GST-tagged

Cat. No. EIF2AK4-3152H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human EIF2AK4 (NP_Q9P2K8.2, 1 a.a. - 1649 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>This gene encodes a member of a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor-2 (EIF2), resulting in the downregulation of protein synthesis. The encoded protein responds to amino acid deprivation by binding uncharged transfer RNAs. It may also be activated by glucose deprivation and viral infection. Mutations in this gene have been found in individuals suffering from autosomal recessive pulmonary venoocclusive-disease-2. [provided by RefSeq, Mar 2014]</p>
<b>Form</b>	Liquid
<b>Bio-activity</b>	<p>The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein and tRNA, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione-coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG.</p> <p>Substrate: EIF2S1. ATP: 100 <math>\mu</math>M.</p>
<b>Molecular Mass</b>	215 kDa

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<b>Purity</b>	90 % by SDS-PAGE/CBB staining
<b>Applications</b>	Functional Study SDS-PAGE
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

## GENE INFORMATION

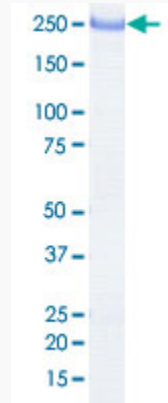
<b>Gene Name</b>	EIF2AK4 eukaryotic translation initiation factor 2 alpha kinase 4 [ Homo sapiens ]
<b>Official Symbol</b>	EIF2AK4
<b>Synonyms</b>	EIF2AK4; eukaryotic translation initiation factor 2 alpha kinase 4; eukaryotic translation initiation factor 2-alpha kinase 4; GCN2; KIAA1338; GCN2-like protein; GCN2 eIF2alpha kinase;
<b>Gene ID</b>	440275
<b>mRNA Refseq</b>	NM_001013703
<b>Protein Refseq</b>	NP_001013725
<b>MIM</b>	609280
<b>UniProt ID</b>	Q9P2K8

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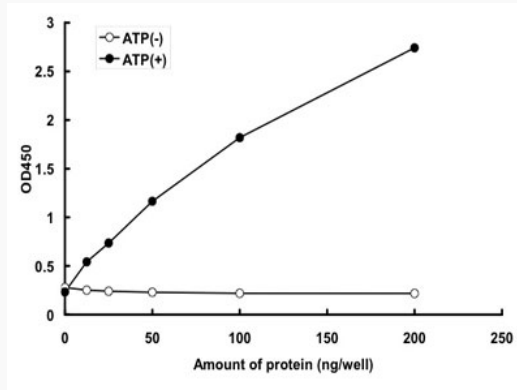
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**Quality Control  
Testing**



Loading 1  $\mu$ g protein in SDS-PAGE

**Result of activity  
analysis**



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