

Active Recombinant Human EIF2AK4 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human EIF2AK4 (NP_Q9P2K8.2, 1 a.a. - 1649 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
Description	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]
Form	Liquid
Bio-activity	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. Substrate: EIF2S1. ATP: 100 µM.
Molecular Mass	215 kDa

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

GENE INFORMATION

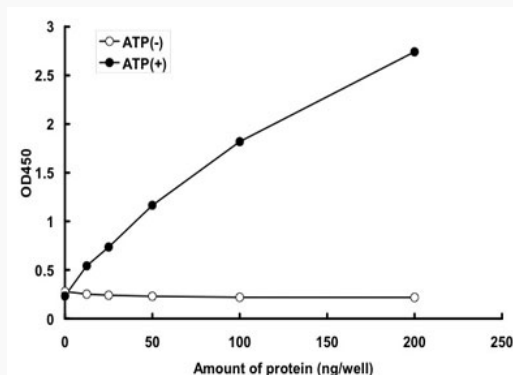
Gene Name	EIF2AK4 eukaryotic translation initiation factor 2 alpha kinase 4 [Homo sapiens]
Official Symbol	EIF2AK4
Synonyms	EIF2AK4; eukaryotic translation initiation factor 2 alpha kinase 4; eukaryotic translation initiation factor 2-alpha kinase 4; GCN2; KIAA1338; GCN2-like protein; GCN2 eIF2alpha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

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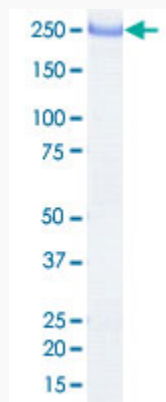
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Result of activity analysis



Quality Control Testing



Loading 1 µg protein in SDS-PAGE

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