

## Recombinant Human EIF2AK1, GST-His

**Cat. No.** EIF2AK1-703H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EIF2AK1, full length, amino acids M1-G630, N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site, was expressed in <i>Sf9</i> insect cells. MW = 100,546 Da.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	1-630 a.a.
<b>Description</b>	The HRI gene is localized to 7p22 where its 3' end slightly overlaps the 3' end of the gene JTV1. The two genes are transcribed from opposite strands. Studies in rat and rabbit suggest that the HRI gene product phosphorylates the alpha subunit of eukaryotic initiation factor 2. Its kinase activity is induced by low levels of heme and inhibited by the presence of heme.
<b>Purification</b>	GST-Affinity Chromatography.
<b>Product Identity</b>	HRI was confirmed as HRI by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
<b>SpecificActivity</b>	3 pmol/μg×min.
<b>Storage Buffer</b>	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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<b>Concentration</b>	0.030 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
<b>Storage</b>	-80°C. Avoid repeated freeze-thaw cycles!
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	EIF2AK1 eukaryotic translation initiation factor 2-alpha kinase 1 [ Homo sapiens ]
<b>Synonyms</b>	EIF2AK1; eukaryotic translation initiation factor 2-alpha kinase 1; HCR; HRI; KIAA1369; heme-regulated inhibitor; heme-regulated repressor; heme-controlled repressor; heme sensitive initiation factor 2a kinase; heme regulated initiation factor 2 alpha kinase; heme-regulated initiation factor 2-alpha kinase; hemin-sensitive initiation factor 2-alpha kinase; heme-regulated eukaryotic initiation factor eIF-2-alpha kinase; EC 2.7.11.1
<b>Gene ID</b>	<a href="#">27102</a>
<b>mRNA Refseq</b>	<a href="#">NM_001134335</a>
<b>Protein Refseq</b>	<a href="#">NP_001127807</a>
<b>UniProt ID</b>	<a href="#">Q9BQI3</a>
<b>Chromosome Location</b>	7p22
<b>Function</b>	ATP binding; eukaryotic translation initiation factor 2alpha kinase activity; heme binding; nucleotide binding; protein homodimerization activity; transferase activity

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