

Recombinant Human EIF2AK1, GST-His

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

SPECIFICATION

Product Overview	Recombinant Human EIF2AK1, full length, amino acids M1-G630, N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site, was expressed in Sf9 insect cells. MW = 100,546 Da.
Species	Human
Source	Sf9 Cells
Protein Length	1-630 a.a.
Description	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.
Purification	GST-Affinity Chromatography.
Product Identity	HRI was confirmed as HRI by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Specific Activity	3 pmol/μg×min.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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

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