



# Recombinant Rat Eukaryotic translation initiation factor 2-alpha kinase 1 (Eif2ak1)

<b>Product Code</b>	CSB-YP007510RA
<b>Abbreviation</b>	Eif2ak1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q63185
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MLGGGSVDGE RDTDDDAAGA VAAPPAIDFP AEVSDPKYDE SDVPAELQVF KEPLQQPTFP FLVANQLLLV SLLEHLSHVH EPNPLHSKQV FKLLCQTFIK MGLSSFTCS DEFSSLRLHH NRAITHLMRS AKERVRQDPC QDNSYMQKIR SREIALEAQT SRYLNEFEEL AILGKGGYGR VYKVRNKLDG QHYAIKKILI KSATKTDCMK VLREVKVLG LQHPNIVGYH TAWIEHVHVL QPQDRVPIQL PSLEVLSEHE GDRNQGGVKD NESSSSIIFA ELTPEKENPL AESDVKNENN NLVSYRANLV IRSSSESESS IELQEDGLNE SPLRPVVKHQ LPLGHSSDVE GNFTSTDESS EDNLNLLGQT EARYHMLLHI QMQLCELSLW DWIAERNRNS RECVDEAACP YVMASVATKI FQELVEGVFY IHNMGIVHRD LKPRNIFLHG PDQQVKIGDF GLACADIQK SADWTNRNGK GTPHTSRVG TCLYASPEQL EGSEYDAKSD MYSLGVILLE LFQPFGTEME RATVLTGVRT GRIPESLSKR CPVQAKYIQL LTGRNAAQRP SALQLLQSEL FQTTGNVNLT LQMKIMEQEK EIEELKKQLS LLSQDKGLKR
<b>Source</b>	Yeast
<b>Target Names</b>	Eif2ak1
<b>Protein Names</b>	Recommended name: Eukaryotic translation initiation factor 2-alpha kinase 1 EC= 2.7.11.1 Alternative name(s): Heme-controlled repressor Short name= HCR Heme-regulated eukaryotic initiation factor eIF-2-alpha kinase Heme-regul
<b>Expression Region</b>	1-620
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein acts at the level of translation initiation to downregulate protein synthesis in response to stress. The encoded protein is a kinase that can be inactivated by hemin. Two transcript variants encoding different isoforms have been found for this gene.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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