

EIF2AK3 recombinant protein

EIF2AK3, Active

CATALOG # AAA73508	HOST E Coli	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

EIF2AK3; Active; PERK; PEK; WRS; HRI; DKFZp781H1925; EIF2AK3 recombinant protein

PRODUCT SPECIFICATIONS

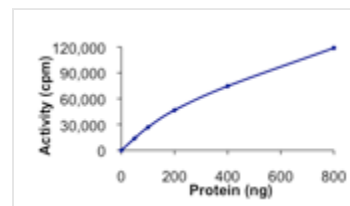
Host	E Coli
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for EIF2AK3 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for EIF2AK3 recombinant protein	Recombinant human EIF2AK3 (563-1115) was expressed in E Coli cells using an N-terminal GST tag. The gene accession number is NM_004836. EIF2AK3 phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2) leading to its inactivation and a rapid reduction of translational initiation and repression of global protein synthesis. EIF2AK3 is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins (1). EIF2AK3 plays a major role in the ability of cells to adapt to ER stress and is also involved in an integrated adaptive response to hypoxic stress in HeLa cells (2). EIF2AK3 functions in iron homeostasis and may play a role in hemolytic and inflammatory anemia.
Product Categories/Family for EIF2AK3 recombinant protein	Protein Kinases; Angiogenesis; Cellular Stress; Inflammation; Neurobiology; Ser/Thr Kinases

References

1. Harding, H. P. et.al: EIF2AK3 is essential for translational regulation and cell survival during the unfolded protein response. Molec. Cell 5: 897-904, 2000.
2. Blais, J. D. et.al: Activating transcription factor 4 is translationally regulated by hypoxic stress. Molec. Cell. Biol. 24: 7469-7482, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_004836](#)

Molecular Weight

~115kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/eif2ak3-recombinant-protein-e-coli-wb-western-blot-kinase-assay/73508>