

Recombinant Human EIF2AK3 Protein, His-tagged

Cat. No. EIF2AK3-1413H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human EIF2AK3 Protein (Phe593-Phe1077) with N-His tag was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Phe593-Phe1077 |
| Description | The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. |
| Form | Freeze-dried powder |
| Molecular Mass | Predicted Molecular Mass: 58.7 kDa Accurate Molecular Mass: 59 kDa |
| Purity | > 95% |
| Applications | Positive Control; Immunogen; SDS-PAGE; WB. |

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| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| Storage Buffer | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| Reconstitution | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

GENE INFORMATION

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| Gene Name | EIF2AK3 eukaryotic translation initiation factor 2-alpha kinase 3 [Homo sapiens (human)] |
| Official Symbol | EIF2AK3 |
| Synonyms | EIF2AK3; eukaryotic translation initiation factor 2-alpha kinase 3; PEK; PERK; hsPEK; pancreatic EIF2-alpha kinase; PRKR-like endoplasmic reticulum kinase; eukaryotic translation initiation factor 2 alpha kinase 3; WRS; DKFZp781H1925; |
| Gene ID | 9451 |
| mRNA Refseq | NM_004836 |
| Protein Refseq | NP_004827 |

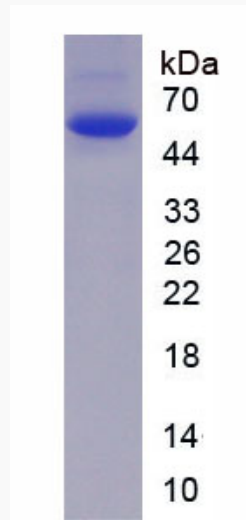
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