

Active Recombinant Full Length Human EIF2AK3 Protein, C-Flag-tagged

Cat. No. EIF2AK3-186HFL **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant Full Length Human EIF2AK3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| 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 | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Bio-activity | Binding assay (ITC) |
| Molecular Mass | 122.1 kDa |
| AA Sequence | MERAISPGLLVRALLLLLLLLLLGLAARTVAAGRARGLPAPTAAEAFGLGAAAAPTSATR VPAAGAVAAAEEV TVEDAEALPAAAGEQEPRGPEPDDELPRGRSLVIISTLDGRI AALDPENHGKKQWDLVDVSGSLVSS SLSKPEVFGNKMIIPSLDGALFQWDRDRES |

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METVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSG KVR YICSALGCRQWDS
 DEMEQEEDILLLQRTQKTVRAVGPRSGNEKWNFSVGHFELRYIPDMETRAGFIE ST
 FKP NENTEESKIISDVEEQEAAIMDIVIKVSVADWKVMAFSKKGHLEWEYQFCTPIA
 SAWLLKDGKV IPISLFD DTSYTSNDDVLEDEEDIVEAARGATENSVYLGMYRGQLYL
 QSSVRISEKFPSSPKALESVTNE NAIPLPTIKWKPLIHSPSRTPVLVGSDEFDKCLSN
 DKFSHEEYSNGALSILQYPYDNGYYLPYYKRERN KRSTQITVRFLDNPHYNKNIRKK
 DPVLLLHWWKEIVATILFCIIATTFIVRRLFHPPHRQRKESETQCQ TENKYDSVSGE
 ANDSSWNDIKNSGYISRYLDFEPIQCLGRGGFGVFEAKNKVDDCN YAIKRIRLPN
 RE LAREKVMREVKALAKLEHPGIVRYFNAWLEAPPEKWQEKMDEIWLKDESTDWP
 LSSPSPMDAPSVKIRRM DPFSTKEHIEIIAPSPQRSRSFSVGISCDQTSSSESQFSPL
 EFGMDHEDISESVDAAYNLQDSCLTDCD VEDGTMDGNDEGHSFELCPSEASPYV
 RSRERTSSSIVFEDSGCDNASSKEEPKTNRLHIGNHCANKLTAF KPTSSKSSSEATL
 SISPPRPTTSLDLTKNTTEKLPSSPKVYLYIQMQLCRKENLKDWMNGRCTIEERE
 RSVCLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVGD FGLVTAMDQDEE
 EQTVLTPMPAYAR HTGQVGTKLYMSPEQIHGNSYSHKVDIFSLGLILFELLYPFSTQ
 MERVRTLTDVRNLKFPPLFTQKYPCE YVMVQDMLSPSPMERPEAINIENAVFEDLD
 FPGKTVLRQRSRSLSSSGTKHSRQSNNSHSPLPSNTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| Stability | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| Storage | Store at -80 centigrade. |
| Concentration | >50 ug/mL as determined by microplate BCA method. |
| Preparation | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |

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|-------------------------|---|
| Protein Families | Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane |
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| Protein Pathways | Alzheimer's disease |
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| Full Length | Full L. |
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GENE INFORMATION

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| Gene Name | EIF2AK3 eukaryotic translation initiation factor 2 alpha kinase 3 [Homo sapiens (human)] |
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| Official Symbol | EIF2AK3 |
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| Synonyms | PEK; WRS; PERK |
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| Gene ID | 9451 |
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| mRNA Refseq | NM_004836.7 |
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| Protein Refseq | NP_004827.4 |
|-----------------------|-------------|

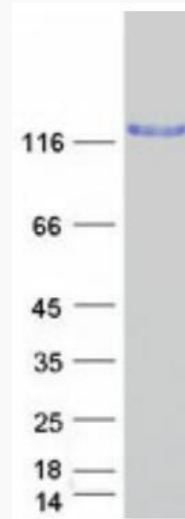
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| MIM | 604032 |
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| UniProt ID | Q9NZJ5 |
|-------------------|--------|

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Coomassie blue staining of purified EIF2AK3 protein.

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