

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

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

SPECIFICATION

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	MERAISPGLLVRAALLLLLLLGLAARTVAAGRARGLPAPTAEAAFGGLGAAAAPTSATR VPAAGAVAAAEV TVEDAEALPAAAGEQEPRGPEPDDETELPRGRSLVIISTLDGRI AALDPENHGKKQWDLVDVSGSLVSS SLSKPEVFGNKMIPSLDGALFQWDRDRES

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METVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSG KVERYICSALGCRQWDS
 DEMEQEEDILLQRTQKTVRAVGPRSGNEKWNFSVGHFELRYIPDMETRAGFIE ST
 FKPNENTEESKIISDVEEQEAAIMDIVIKVSVADWKVMAFSKKGHLEWEYQFCTPIA
 SAWLLKDGKV IPISLFDDTSYTSNDDVLEDEEDIVEAARGATENSVYLGMYRGQLYL
 QSSVRISEKFPSSPKALESVTNE NAIPLPTIKWKPLIHSPSRTPVLVGSDEFDKCLSN
 DKFSHEEYSNGALSILQYPYDNGYYLPYYKRERN KRSTQITVRFLDNPHYNKNIRKK
 DPVLLLHWWKEIVATILFCIIATTFIVRRLFHPPHQRKESETQCQ TENKYDSVSGE
 ANDSSWNDIKNSGYISRYLTDFEPIQCLGRGGFGVVFEAKNKVDDCNAYAIRIRLPN
 RE LAREKVMREVKALAKLEHPGIVRYFNAWLEAPPEKWQEKMDIWLKDESTDWP
 LSSPSPMDAPSVKIRRM DPFSTKEHIEIAPSPQRSRSFSVGISCDQTSSSESQFSPL
 EFSGMDHEDISESVDAAYNLQDSCLTDCD VEDGTMDGNDEGHSELCPSSEASPYV
 RSRERTSSSIVFEDSGCDNASSKEEPKTNRLHIGNHCANKLTAF KPTSSKSSSEATL
 SISPPRPTTSLDLTKNTTEKLQPSSPKVYLYIQMQLCRKENLKDWMNGRCTIEERE
 RSVCLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVGDFGLVTAMDQDEE
 EQTVLTPMPAYAR HTGQVGTKLYMSPEQIHGNSYSHKVDIFSLGLILFELLYPFSTQ
 MERVRTLTDVRNLKFPPLFTQKYPCE YVMVQDMLSPSPMERPEAINIENAVFEDLD
 FPGKTVLRQRSRSLSSSGTKHSRQSNNSHSPGPSNTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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.

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

GENE INFORMATION

Gene Name	EIF2AK3 eukaryotic translation initiation factor 2 alpha kinase 3 [Homo sapiens (human)]
Official Symbol	EIF2AK3
Synonyms	PEK; WRS; PERK
Gene ID	9451
mRNA Refseq	NM_004836.7
Protein Refseq	NP_004827.4
MIM	604032
UniProt ID	Q9NZJ5

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