

Recombinant Human EIF2AK3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EIF2AK3-2744H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EIF2AK3 MS Standard C13 and N15-labeled recombinant protein (NP_004827) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	125.26 kDa
AA Sequence	MERAISPGLLVRAALLLLLLLGLAARTVAAGRARGLPAPTAEAAFGGLGAAAAPTSATR VPAAGAVAAA ETVVEDAEALPAAAGEQEPRGPEPDDTELPRGRSLVIISTLDGRI AALDPENHGKKQWDLVDVSGSLVSSSLSKPEVFGNKMIIPSLDGALFQWDRDRES METVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSGKVRYICSA LGCRQWDS DEMEQEEDILLLQRTQKT VRAVGPRSGNEKWNFSVGHFELRYIPDMETRAGFIESTF KPNENTEESKIISDVVEEQEAAIMDIVIKVSVADWKVMAFSKKGGHLEWEYQFCTPIAS

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AWLLKDGKVIPISLFDDTSYTSNDDVLEDEEDIVEAARGATENSVYLGMYRGQLYLQ
 SSVRISEKFPSSPKALESVTNENAIPLPTIKWKPLIHSPSRTPVLVGSDEFDKCLSND
 KFSHEEYSNGALSILQYPYDNGYYLPYYKRERNKRSTQITVRFLDNPHYNKNIRKKD
 PVLLHWWKEIVATILFCIIATTFIVRRLFHPHQRKESETQCQTENKYDSVSGEA
 NDSSWNDIKNSGYISRYLTDFEPIQCLGRGGFGVVFEAKNKVDDCNIAIKRIRLPNR
 ELAREKVMREVKALAKLEHPGIVRYFNAWLEAPPEKWQEKMDIEWLKDESTDWPLS
 SPSPMDAPSVKIRRMDFSTKEHIEIAPSPQRSRSFSVGISCDQTSSSESQFSPLEF
 SGMDHEDISESVDAAYNLQDSCLTDCDVEDGTMDGNDEGHSFELCPSEASPYVRS
 RERTSSSIVFEDSGCDNASSKEEPKTNRLHIGNHCANKLTAFKPTSSKSSSEATLSIS
 PPRPTTSLDLTKNTTEKLQPSSPKVYLYIQMQLCRKENLKDWMNGRCTIEERERSV
 CLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVGDFGLVTAMDQDEEEQT
 VLTPMPAYARHTGQVGTKLYMSPEQIHGNSYSHKVDIFSLGLILFELLYPFSTQMERY
 RTLT DVRNLKFPPLFTQKYPCEYVMVQDMLSPSPMERPEAINIENAVFEDLDFPGKT
 VLRQRSRLSSSGTKHSRQSNNSHSPLPSNTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name EIF2AK3 eukaryotic translation initiation factor 2-alpha kinase 3 [Homo sapiens

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	(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
MIM	604032
UniProt ID	Q9NZJ5
SDS-PAGE	