

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	MERAISPGLLVRAALLLLLLLGLAARTVAAGRARGLPAPTAEEAFLGAAAAPTSATR VPAAGAVAAA E V T V E D A E A L P A A A G E Q E P R G P E P D D E T E L R P R G R S L V I I S T L D G R I A A L D P E N H G K K Q W D L D V G S G S L V S S S L S K P E V F G N K M I I P S L D G A L F Q W D R D R E S M E T V P F T V E S L L E S S Y K F G D D V V L V G G K S L T T Y G L S A Y S G K V R Y I C S A L G C R Q W D S D E M E Q E E D I L L L Q R T Q K T V R A V G P R S G N E K W N F S V G H F E L R Y I P D M E T R A G F I E S T F K P N E N T E E S K I I S D V E E Q E A A I M D I V I K V S V A D W K V M A F S K K G G H L E W E Y Q F C T P I A S

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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	