Acylglycerol Kinase, Mitochondrial (AGK) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acylglycerol kinase, mitochondrial (AGK), Recombinant Protein
Full Product Name	Recombinant Pongo abelii Acylglycerol kinase, mitochondrial (AGK)
Product Gene Name	AGK recombinant protein
Product Synonym Gene Name	AGK
Sequence	KHCDNLLRRA ACQEAQVFGN QLIPPNAQVK KATVFLNPAA CKGKARTLFE KNAAPILHLC GMDVTIVKTD YEGQAKKLLE LMENTDVIIV AGGDGTLQEV VTGVLRRTDE ATFSKIPIGF IPLGETSSLS HTLFAESGNK VQHITDATLA IVKGETVPLD VLQIKGEKEQ PVFAMTGLRW GSFRDAGVKV SKYWYLGPLK IKAAHFFSTL KEWPQTHQAS ISYTGPTERP PSEPEETPVQ RPSLYRRILR RLASYWAQPQ DALSQEVSPE VWKDVQLSTI ELSITTRNNQ LDPTSKEDFL NICIEPDTIS KGDFITIGSR KVRNPKLHAE GTECLQASQC TLLIPEGAGG SFSIDSEEYE AMPVEVKLLP RKLQFFCDPR KREQMLTSPA Q
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	47,068 Da
Sequence Positions	32-422, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5RED7
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AGK recombinant protein	MBS1341441 is a recombinant protein targeting AGK. Also known as Recombinant Pongo abelii Acylglycerol kinase, mitochondrial (AGK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of AGK recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGK. It may not necessarily be applicable to this product.

NCBI GI #	197099586
NCBI GeneID	100171735
NCBI Accession #	NP_001124872.1
UniProt Primary Accession #	Q5RED7

UniProt Related Accession #	Q5RED7
GenBank Nucleotide #	NM_001131400.1
NCBI Official Full Name	acylglycerol kinase, mitochondrial
NCBI Official Symbol	AGK
NCBI Official Synonym Symbols	MULK
UniProt Protein Name	Acylglycerol kinase, mitochondrial
UniProt Synonym Protein Names	Multiple substrate lipid kinase
Protein Family	Acylglycerol kinase
UniProt Gene Name	AGK
UniProt Synonym Gene Names	Multi-substrate lipid kinase
NCBI Protein Information	acylglycerol kinase, mitochondrial
UniProt Comments for AGK	Lipid kinase that can phosphorylate both monoacylglycerol and diacylglycerol to form lysophosphatidic acid (LPA) and phosphatidic acid (PA), respectively. Does not phosphorylate sphingosine. Independently of its lipid kinase activity, acts as a component of the TIM22 complex. The TIM22 complex mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane by forming a twin-pore translocase that uses the membrane potential as the external driving force. In the TIM22 complex, required for the import of a subset of metabolite carriers into mitochtondria, such as ANT1/SLC25A4 and SLC25A24, while it is not required for the import of TIMM23. Overexpression increases the formation and secretion of LPA, resulting in transactivation of EGFR and activation of the downstream MAPK signaling pathway, leading to increased cell growth.
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