Riboflavin Kinase (RFK) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Riboflavin kinase (RFK), Recombinant Protein
Full Product Name	Recombinant Human Riboflavin kinase (RFK)
Product Gene Name	RFK recombinant protein
Product Synonym Gene Name	RFK
Sequence	MRHLPYFCRG QVVRGFGRGS KQLGIPTANF PEQVVDNLPA DISTGIYYGW ASVGSGDVHK MVVSIGWNPY YKNTKKSMET HIMHTFKEDF YGEILNVAIV GYLRPEKNFD SLESLISAIQ GDIEEAKKRL ELPEHLKIKE DNFFQVSKSK IMNGH
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	17,623 Da
Sequence Positions	1-155, 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.
OMIM	613010
3D Structure	ModBase 3D Structure for Q969G6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RFK recombinant protein	MBS1349244 is a recombinant protein targeting RFK. Also known as Recombinant Human Riboflavin kinase (RFK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RFK 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 RFK. It may not necessarily be applicable to this product.

NCBI GI #	269973877
NCBI GeneID	55312
NCBI Accession #	NP_060809.3
UniProt Primary Accession #	Q969G6
UniProt Secondary Accession #	Q5JSG9; Q9NUT7

UniProt Related Accession #	Q969G6
GenBank Nucleotide #	NM_018339.5
NCBI Official Full Name	riboflavin kinase
NCBI Official Synonym Full Names	riboflavin kinase
NCBI Official Symbol	RFK
NCBI Official Synonym Symbols	RIFK
UniProt Protein Name	Riboflavin kinase
UniProt Synonym Protein Names	ATP:riboflavin 5'-phosphotransferase; Flavokinase
UniProt Gene Name	RFK
NCBI Protein Information	riboflavin kinase
NCBI Summary for RFK	Riboflavin kinase (RFK; EC 2.7.1.26) is an essential enzyme that catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin mononucleotide (FMN), an obligatory step in vitamin B2 utilization and flavin cofactor synthesis (Karthikeyan et al., 2003 [PubMed 12623014]).[supplied by OMIM, Nov 2009]
UniProt Comments for RFK	Catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN), hence rate-limiting enzyme in the synthesis of FAD. Essential for TNF-induced reactive oxygen species (ROS) production. Through its interaction with both TNFRSF1A and CYBA, physically and functionally couples TNFRSF1A to NADPH oxidase. TNF-activation of RFK may enhance the incorporation of FAD in NADPH oxidase, a critical step for the assembly and activation of NADPH oxidase.
Research Articles on RFK	**1.** DR4 and DR5 have a capability to activate Nox1 by recruiting RFK, resulting in ROS-mediated apoptotic cell death in tumor cells.
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