Recombinant Human Riboflavin Kinase

Cat. No. RFK-107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant riboflavin kinase was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 20.5 kDa (182 aa).
Species	Human
Source	E.coli
ProteinLength	1-162 a.a.
Description	Riboflavin kinase, also known as flavokinase, belongs to the family of transferases, specifically those transferring phosphorus-containing groups (phosphotransferases) with an alcohol group as acceptor. It is an enzyme that catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN).
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MPRADCIMRH LPYFCRGQVV RGFGRGSKQL GIPTANFPEQ VVDNLPADIS TGIYYGWASV GSGDVHKMVV SIGWNPYYKN TKKSMETHIM HTFKEDFYGE ILNVAIVGYL RPEKNFDSLE SLISAIQGDI EEAKKRLELP EHLKIKEDNF FQVSKSKIMN GH.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1.0 mg/ml (determined by Bradford assay).

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Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	RFK riboflavin kinase [Homo sapiens]
Synonyms	RFK; riboflavin kinase; RIFK; FLJ11149; RP11-422N19.2; flavokinase; 0610038L10Rik; ATP:riboflavin 5''-phosphotransferase; EC 2.7.1.26; Flavokinase
Gene ID	55312
mRNA Refseq	NM_018339
Protein Refseq	NP_060809
MIM	613010
UniProt ID	Q969G6
Chromosome Location	9q21.31
Pathway	Metabolic pathways; Riboflavin metabolism; Metabolism of vitamins and cofact
Function	ATP binding; magnesium ion binding; nucleotide binding; riboflavin kinase activity; riboflavin kinase activity; transferase activity; zinc ion binding

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