

Recombinant Human Riboflavin Kinase

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

SPECIFICATION

Product Overview	Recombinant riboflavin kinase was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 20.5 kDa (182 aa).
Species	Human
Source	E.coli
Protein Length	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 GSGDVHKMNV 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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