

## Recombinant Human Riboflavin Kinase

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant riboflavin kinase was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 20.5 kDa (182 aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	1-162 a.a.
<b>Description</b>	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).
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MPRADCIMRH LPYFCRGQVV RGFGRGSKQL GIPTANFPEQ VVDNLPADIS TGIYYGWASV GSGDVHKMNV SIGWNPYYKN TKKSMETHIM HTFKEDFYGE ILNVAIVGYL RPEKNFDSLE SLISAIQGDI EEAKKRLELP EHLKIKEDNF FQVSKSKIMN GH.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Concentration</b>	1.0 mg/ml (determined by Bradford assay).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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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