

Human Flavokinase / RFK Protein (His Tag)

Catalog Number: 13881-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

RIFK; 0610038L10Rik; AF031381; KOI-4

Protein Construction:

A DNA sequence encoding the mature form of human RFK (Q969G6) (Met1-His155) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

Kinase activity untested

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human RFK consists of 170 amino acids and predicts a molecular mass of 19.5 KDa. It migrates as an approximately 20 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile 20mM Tris, 10% glycerol, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

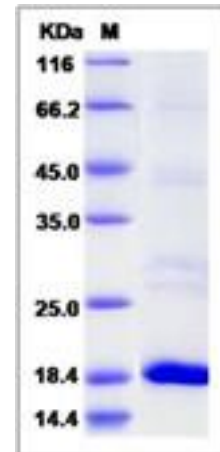
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Flavokinase is a member of the transferases family, specifically those transferring phosphorus-containing groups (phosphotransferases) with an alcohol group as acceptor. Flavokinase 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. It has been proposed that TNF, through the activation of the flavokinase gene, enhances the incorporation of FAD in NADPH oxidase enzymes, which is a critical step for the assembly and activation of NADPH oxidase.

References

- 1.Hirano G, *et al.* (2011) Involvement of riboflavin kinase expression in cellular sensitivity against cisplatin. *Int J Oncol.* 38(4):893-902.
- 2.Danielsen JM, *et al.* (2011) Mass spectrometric analysis of lysine ubiquitylation reveals promiscuity at site level. *Mol Cell Proteomics.* 10(3):M110.003590.
- 3.Danielsen JM, *et al.* (2011) Mass spectrometric analysis of lysine ubiquitylation reveals promiscuity at site level. *Mol Cell Proteomics.* 10(3):M110.003590.

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