

Recombinant human Riboflavin kinase/RFP protein

Catalog Number: ATGP0358

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-162aa

UniProt No.

Q969G6

NCBI Accession No.

NP_060809

Alternative Names

RIFK, RP11-422N19.2, RFK, 0610038L10Rik, AF031381, KOI 4, Riboflavin kinase, ATP:riboflavin 5' phosphotransferase, Flavokinase

PRODUCT SPECIFICATION

Molecular Weight

20.5 kDa (182aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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). Recombinant riboflavin kinase was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

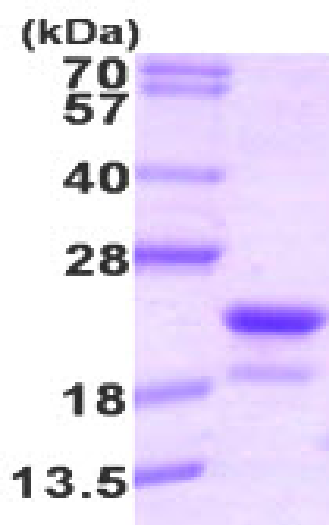
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TGIYYGWASV GSGDVHKMNV SIGWNPYYKN TKKSMETHIM HTFKEDFYGE ILNVAIVGYL RPEKNFDSLE SLISAIQGDI
EEAKRLELP EHLKIKEDNF FQVSKSKIMN GH

General References

Karthikeyan S, et al. (2003) Structure. 11(3):265-73.
Yazdanpanah B, et al. (2009) Nature. 460(7259):1159-63.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)