Creative Enzymes®

riboflavin kinase

Cat. No. EXWM-3056

Lot. No. (See product label)

Introduction

Description The cofactors FMN and FAD participate in numerous processes in all organisms, including mitochondrial electron transport, photosynthesis, fatty-acid oxidation, and metabolism of vitamin B6, vitamin B12 and folates. While monofunctional riboflavin kinase is found in eukaryotes, some bacteria have a bifunctional enzyme that exhibits both this activity and that of EC 2.7.7.2, FMN adenylyltransferase. A divalent metal cation is required for activity (with different species preferring Mg2+, Mn2+ or Zn2+). In Bacillus subtilis, ATP can be replaced by other phosphate donors but with decreasing enzyme activity in the order ATP > dATP > CTP > UTP.

Synonyms flavokinase; FK; RFK

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.7.1.26

CAS No. 9032-82-0

Reaction ATP + riboflavin = ADP + FMN

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.