

## 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 Mg<sup>2+</sup>, Mn<sup>2+</sup> or Zn<sup>2+</sup>). 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.