

FAD synthetase

Cat. No. EXWM-3234

Lot. No. (See product label)

Introduction

Description

Requires Mg²⁺ and is highly specific for ATP as phosphate donor. 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 FAD synthetase is found in eukaryotes and in some prokaryotes, most prokaryotes have a bifunctional enzyme that exhibits both this activity and that of EC 2.7.1.26, riboflavin kinase.

Synonyms

FAD pyrophosphorylase; riboflavin mononucleotide adenylyltransferase; adenosine triphosphate-riboflavin mononucleotide transadenylase; adenosine triphosphate-riboflavine mononucleotide transadenylase; riboflavin adenine dinucleotide pyrophosphorylase; riboflavine adenine dinucleotide adenylyltransferase; flavin adenine dinucleotide synthetase; FADS; FMN adenylyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.7.2

CAS No.

9026-37-3

Reaction

ATP + FMN = diphosphate + FAD

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.