

## pyridoxine 5'-phosphate synthase

Cat. No. EXWM-2943

Lot. No. (See product label)

### Introduction

#### Description

In Escherichia coli, the coenzyme pyridoxal 5'-phosphate is synthesized de novo by a pathway that involves EC 1.2.1.72 (erythrose-4-phosphate dehydrogenase), EC 1.1.1.290 (4-phosphoerythronate dehydrogenase), EC 2.6.1.52 (phosphoserine transaminase), EC 1.1.1.262 (4-hydroxythreonine-4-phosphate dehydrogenase), EC 2.6.99.2 (pyridoxine 5'-phosphate synthase) and EC 1.4.3.5 (with pyridoxine 5'-phosphate as substrate). 1-Deoxy-D-xylulose cannot replace 1-deoxy-D-xylulose 5-phosphate as a substrate.

#### Synonyms

pyridoxine 5-phosphate phospho lyase; PNP synthase; PdxJ

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.6.99.2

#### CAS No.

230310-47-1

#### Reaction

1-deoxy-D-xylulose 5-phosphate + 3-amino-2-oxopropyl phosphate = pyridoxine 5'-phosphate + phosphate + 2 H<sub>2</sub>O

#### 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.