Creative Enzymes®

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 H2O
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 ℃.