

pyridoxal 5'-phosphate synthase (glutamine hydrolysing)

Cat. No. EXWM-5307

Lot. No. (See product label)

Introduction

Description

The ammonia is provided by the glutaminase subunit and channeled to the active site of the lyase subunit by a 100 Å tunnel. The enzyme can also use ribulose 5-phosphate and dihydroxyacetone phosphate. The enzyme complex is found in aerobic bacteria, archaea, fungi and plants.

Synonyms

PdxST

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.3.3.6

Reaction

D-ribose 5-phosphate + D-glyceraldehyde 3-phosphate + L-glutamine = pyridoxal 5'-phosphate + L-glutamate + 3 H₂O + phosphate (overall reaction); (1a) L-glutamine + H₂O = L-glutamate + NH₃; (1b) D-ribose 5-phosphate + D-glyceraldehyde 3-phosphate + NH₃ = pyridoxal 5'-phosphate + 4 H₂O + phosphate

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.