Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.