

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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