Creative Enzymes®

1-deoxy-D-xylulose-5-phosphate reductoisomerase

Cat. No. EXWM-0173

Lot. No. (See product label)

Introduction

Description	The enzyme requires Mn2+, Co2+ or Mg2+ for activity, with the first being most effective. The enzyme from several eubacteria, including Escherichia coli, forms part of an alternative nonmevalonate pathway for terpenoid biosynthesis (for diagram, click here). The mechanism has been shown to be a retroaldol/aldol reaction.
Synonyms	DXP-reductoisomerase; 1-deoxy-D-xylulose-5-phosphate isomeroreductase; 2-C-methyl-D-erythritol 4-phosphate (MEP) synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.267
CAS No.	210756-42-6
Reaction	2-C-methyl-D-erythritol 4-phosphate + NADP+ = 1-deoxy-D-xylulose 5-phosphate + NADPH + H+
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 ℃.