

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

Cat. No. EXWM-0173

Lot. No. (See product label)

Introduction

Description

The enzyme requires Mn^{2+} , Co^{2+} or Mg^{2+} 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 isomero-reductase; 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.