

## 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 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  $+4\text{ }^{\circ}\text{C}$  for short term. For long term storage, store it at  $-20\text{ }^{\circ}\text{C}$ ~- $-80\text{ }^{\circ}\text{C}$ .