

## 2-epi-5-epi-valiolone synthase

Cat. No. EXWM-5167

Lot. No. (See product label)

## Introduction

**Description** The enzyme is highly specific for  $\alpha$ -D-sedoheptulopyranose 7-phosphate. It requires

a divalent metal ion (Zn2+ or Co2+) and an NAD+ cofactor, which is transiently reduced during the reaction. The enzyme is involved in the biosynthesis of C7N-aminocyclitol natural products, such as the valienamine moiety of the antidiabetic drug acarbose and the crop protectant validamycin A. cf. EC 4.2.3.155, 2-epi-valiolone synthase and EC 4.2.3.154, demethyl-4-deoxygadusol synthase.

**Synonyms** AcbC; ValA; CetA; SalQ; C7-cyclitol synthase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.3.152

**Reaction**  $\alpha$ -D-sedoheptulopyranose 7-phosphate = 2-epi-5-epi-valiolone + 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.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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