

## 2-epi-valiolone synthase

Cat. No. EXWM-5170

Lot. No. (See product label)

### Introduction

**Description** The enzyme, characterized from the bacteria *Actinosynnema mirum* and *Stigmatella aurantiaca* DW4/3-1, produces 2-epi-valiolone, which is believed to function as a precursor in aminocyclitol biosynthesis. It requires a divalent metal ion ( $Zn^{2+}$  or  $Co^{2+}$ ) and an  $NAD^+$  cofactor, which is transiently reduced during the reaction. cf. EC 4.2.3.152, 2-epi-5-epi-valiolone synthase and EC 4.2.3.154, demethyl-4-deoxygadusol synthase.

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.3.155

**Reaction** D-sedoheptulose 7-phosphate = 2-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

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