

## 2-amino-4-deoxychorismate synthase

Cat. No. EXWM-2927

Lot. No. (See product label)

### Introduction

#### Description

Requires Mg<sup>2+</sup>. The reaction occurs in the reverse direction to that shown above. In contrast to most anthranilate-synthase I (ASI) homologues, this enzyme is not inhibited by tryptophan. In *Streptomyces globisporus*, the sequential action of this enzyme and EC 1.3.99.24, 2-amino-4-deoxychorismate dehydrogenase, leads to the formation of the benzoxazolinat moiety of the enediyne antitumour antibiotic C-1027. In certain *Pseudomonads* the enzyme participates in the biosynthesis of phenazine, a precursor for several compounds with antibiotic activity.

#### Synonyms

ADIC synthase; 2-amino-2-deoxyisochorismate synthase; SgcD

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.6.1.86

#### Reaction

(2S)-2-amino-4-deoxychorismate + L-glutamate = chorismate + L-glutamine

#### 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.