

## (S)-canadine synthase

Cat. No. EXWM-1027

Lot. No. (See product label)

### Introduction

#### Description

A heme-thiolate enzyme (P-450) catalysing an oxidative reaction that does not incorporate oxygen into the product. Oxidation of the methoxyphenol group of the alkaloid tetrahydrocolumbamine results in the formation of the methylenedioxy bridge of canadine.

#### Synonyms

(S)-tetrahydroberberine synthase; (S)-tetrahydrocolumbamine oxidase (methylenedioxy-bridge-forming)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.21.5

#### CAS No.

114308-22-4

#### Reaction

(S)-tetrahydrocolumbamine + NADPH + H<sup>+</sup> + O<sub>2</sub> = (S)-canadine + NADP<sup>+</sup> + 2 H<sub>2</sub>O

#### 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.