

## (S)-nandinine synthase

Cat. No. EXWM-1023

Lot. No. (See product label)

### Introduction

#### Description

A cytochrome P-450 heme-thiolate enzyme catalysing an oxidative reaction that does not incorporate oxygen into the product. Forms the methylenedioxy bridge of the protoberberine alkaloid (S)-nandinine by the oxidative ring closure of adjacent phenolic and methoxy groups of (S)-scoulerine. cf. EC 1.14.21.2, (S)-cheilanthifoline synthase, which catalyses a similar reaction at the other side of the (S)-scoulerine molecule, forming (S)-cheilanthifoline.

#### Synonyms

CYP719A3

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.21.12

#### Reaction

(S)-scoulerine + NADPH + H<sup>+</sup> + O<sub>2</sub> = (S)-nandinine + 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.