

## costunolide synthase

Cat. No. EXWM-0721

Lot. No. (See product label)

### Introduction

#### Description

A heme-thiolate protein (P-450). The enzyme hydroxylates carbon C-6 of germacra-1(10),4,11(13)-trien-12-oate to give 6 $\alpha$ -hydroxygermacra-1(10),4,11(13)-trien-12-oate, which probably spontaneously cyclises to form the lactone ring.

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.120

#### Reaction

germacra-1(10),4,11(13)-trien-12-oate + NADPH + H<sup>+</sup> + O<sub>2</sub> = (+)-costunolide + 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.