

## $\alpha$ -guaiene synthase

Cat. No. EXWM-5250

Lot. No. (See product label)

### Introduction

#### Description

Requires Mg<sup>2+</sup>. The enzyme from Pogostemon cablin gives 13%  $\alpha$ -guaiene as well as 37% (-)-patchoulol (see EC 4.2.3.70), 13%  $\Delta$ -guaiene (see EC 4.2.3.93), and traces of at least ten other sesquiterpenoids. In Aquilaria crassna three clones of the enzyme gave about 80%  $\Delta$ -guaiene and 20%  $\alpha$ -guaiene, with traces of  $\alpha$ -humulene. A fourth clone gave 54%  $\Delta$ -guaiene and 45%  $\alpha$ -guaiene.

#### Synonyms

PatTps177 (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 4.2.3.87

#### Reaction

(2E,6E)-farnesyl diphosphate =  $\alpha$ -guaiene + diphosphate

#### 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.