

## 8-hydroxygeraniol dehydrogenase

Cat. No. EXWM-0237

Lot. No. (See product label)

### Introduction

#### Description

Contains Zn<sup>2+</sup>. The enzyme catalyses the oxidation of (6E)-8-hydroxygeraniol to (6E)-8-oxogeraniol via either (6E)-8-hydroxygeraniol or (6E)-8-oxogeraniol. Also acts on geraniol, nerol and citronellol. May be identical to EC 1.1.1.183 geraniol dehydrogenase. The recommended numbering of geraniol gives 8-hydroxygeraniol as the substrate rather than 10-hydroxygeraniol as used by references 1 and 2. See prenol nomenclature Pr-1.

#### Synonyms

8-hydroxygeraniol oxidoreductase; CYP76B10; G10H; CrG10H; SmG10H; acyclic monoterpene primary alcohol:NADP<sup>+</sup> oxidoreductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.1.324

#### Reaction

(6E)-8-hydroxygeraniol + 2 NADP<sup>+</sup> = (6E)-8-oxogeraniol + 2 NADPH + 2 H<sup>+</sup> (overall reaction); (1a) (6E)-8-hydroxygeraniol + NADP<sup>+</sup> = (6E)-8-hydroxygeraniol + NADPH + H<sup>+</sup>; (1b) (6E)-8-hydroxygeraniol + NADP<sup>+</sup> = (6E)-8-oxogeraniol + NADPH + H<sup>+</sup>; (1c) (6E)-8-hydroxygeraniol + NADP<sup>+</sup> = (6E)-8-oxogeraniol + NADPH + H<sup>+</sup>; (1d) (6E)-8-oxogeraniol + NADP<sup>+</sup> = (6E)-8-oxogeraniol + NADPH + H<sup>+</sup>

#### 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.