

## geosmin synthase

Cat. No. EXWM-4930

Lot. No. (See product label)

### Introduction

**Description** Requires Mg<sup>2+</sup>. Geosmin is the cause of the characteristic smell of moist soil. It is a bifunctional enzyme. The N-terminal part of the enzyme is EC 4.2.3.22, germacradienol synthase, and forms germacradienol from FPP. The C-terminal part of the enzyme catalyses the conversion of germacradienol to geosmin via (1S,4aS,8aS)-1,4a-dimethyl-1,2,3,4,4a,5,6,8a-octahydronaphthalene.

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.1.99.16

**Reaction** (1E,4S,5E,7R)-germacra-1(10),5-dien-11-ol + H<sub>2</sub>O = (-)-geosmin + acetone

**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.