

premnaspirodiene oxygenase

Cat. No. EXWM-0722

Lot. No. (See product label)

Introduction

Description

A heme-thiolate protein (P-450). The enzyme from the plant *Hyoscyamus muticus* also hydroxylates valencene at C-2 to give the α -hydroxy compound, nootkatol, and this is converted into nootkatone. 5-Epiaristolochene and epieremophilene are hydroxylated at C-2 to give a 2 β -hydroxy derivative which is not further oxidized.

Synonyms

HPO; *Hyoscyamus muticus* premnaspirodiene oxygenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.121

Reaction

(-)-vetispiradiene + 2 NADPH + 2 H⁺ + 2 O₂ = solavetivone + 2 NADP⁺ + 3 H₂O (overall reaction); (1a) (-)-vetispiradiene + NADPH + H⁺ + O₂ = solavetivol + NADP⁺ + H₂O; (1b) solavetivol + NADPH + H⁺ + O₂ = solavetivone + NADP⁺ + 2 H₂O

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.