

ent-kaurenoic acid oxidase

Cat. No. EXWM-0886

Lot. No. (See product label)

Introduction

Description

Requires cytochrome P-450. Catalyses three successive oxidations of ent-kaurenoic acid. The second step includes a ring-B contraction giving the gibbane skeleton. In pumpkin (*Cucurbita maxima*) ent-6 α ,7 α -dihydroxykaur-16-en-19-oate is also formed.

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.79

CAS No.

337507-95-6

Reaction

ent-kaur-16-en-19-oate + 3 NADPH + 3 H⁺ + 3 O₂ = gibberellin A12 + 3 NADP⁺ + 4 H₂O (overall reaction); (1a) ent-kaur-16-en-19-oate + NADPH + H⁺ + O₂ = ent-7 α -hydroxykaur-16-en-19-oate + NADP⁺ + H₂O; (1b) ent-7 α -hydroxykaur-16-en-19-oate + NADPH + H⁺ + O₂ = gibberellin A12 aldehyde + NADP⁺ + 2 H₂O; (1c) gibberellin A12 aldehyde + NADPH + H⁺ + O₂ = gibberellin A12 + NADP⁺ + 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.