Creative Enzymes®

ent-kaurenoic acid oxidase

Cat. No. EXWM-0886

Lot. No. (See product label)

Introduction

Description Requires cytochrome P-450. Catalyses three sucessive oxidations of ent-kaurenoic acid. The second step includes a ring-B contraction giving the gibbane skeleton. In pumpkin (Cucurbita maxima) ent-6α,7α-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-7α-hydroxykaur-16-en-19-oate + NADP+ + H2O; (1b) ent-7α-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.