Creative Enzymes®

β-amyrin 28-monooxygenase

Cat. No. EXWM-0803

Lot. No. (See product label)

Introduction

Description The enzyme, found in plants, is involved in the biosynthesis of oleanane-type triterpenoids, such as ginsenoside Ro. The enzyme from Medicago trunculata (CYP716A12) can also convert α-amyrin and lupeol to ursolic acid and betulinic acid, respectively.

Synonyms CYP716A52v2; CYP716A12; β-amyrin 28-oxidase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.201

Reaction β-amyrin + 3 O2 + 3 NADPH + 3 H+ = oleanolate + 3 NADP+ + 4 H2O (overall reaction); (1a) β-amyrin + O2 + NADPH + H+ = erythrodiol + NADP+ + H2O; (1b) erythrodiol + O2 + NADPH + H+ = oleanolic aldehyde + NADP+ + 2 H2O; (1c) oleanolic aldehyde + O2 + NADPH + H+ = oleanolate + 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 ℃.