

β-amyrin 11-oxidase

Cat. No. EXWM-0733

Lot. No. (See product label)

Introduction

Description Requires cytochrome P-450. Part of the glycyrrhizin biosynthesis pathway. The enzyme is also able to oxidize 30-hydroxy-β-amyrin to 11α,30-dihydroxy-β-amyrin but this is not thought to be part of glycyrrhizin biosynthesis.

Synonyms CYP88D6

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.134

Reaction $\beta\text{-amyrin} + 2 \text{O}_2 + 2 \text{NADPH} + 2 \text{H}^+ = 11\text{-oxo-}\beta\text{-amyrin} + 3 \text{H}_2\text{O} + 2 \text{NADP}^+$ (overall reaction); (1a) $\beta\text{-amyrin} + \text{O}_2 + \text{NADPH} + \text{H}^+ = 11\alpha\text{-hydroxy-}\beta\text{-amyrin} + \text{H}_2\text{O} + \text{NADP}^+$; (1b) $11\alpha\text{-hydroxy-}\beta\text{-amyrin} + \text{O}_2 + \text{NADPH} + \text{H}^+ = 11\text{-oxo-}\beta\text{-amyrin} + 2 \text{H}_2\text{O} + \text{NADP}^+$

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.