

11-oxo- β -amyrin 30-oxidase

Cat. No. EXWM-0771

Lot. No. (See product label)

Introduction

Description A heme-thiolate protein (cytochrome P-450). The enzyme is involved in the biosynthesis of the triterpenoid saponin glycyrrhizin in the plant Glycyrrhiza uralensis (licorice). The enzyme from the plant Medicago truncatula can also hydroxylate β -amyrin.

Synonyms CYP72A; CYP72A154

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.173

Reaction 11-oxo- β -amyrin + 3 O₂ + 3 NADPH + 3 H⁺ = glycyrrhetinate + 3 NADP⁺ + 4 H₂O (overall reaction); (1a) 11-oxo- β -amyrin + O₂ + NADPH + H⁺ = 30-hydroxy-11-oxo- β -amyrin + NADP⁺ + H₂O; (1b) 30-hydroxy-11-oxo- β -amyrin + O₂ + NADPH + H⁺ = glycyrrhetaldehyde + NADP⁺ + 2 H₂O; (1c) glycyrrhetaldehyde + O₂ + NADPH + H⁺ = glycyrrhetinate + 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.