

3-epi-6-deoxocathasterone 23-monooxygenase

Cat. No. EXWM-0712

Lot. No. (See product label)

Introduction

Description

This enzyme is involved in brassinosteroid biosynthesis. C-23 hydroxylation shortcuts bypass campestanol, 6-deoxocathasterone, and 6-deoxoteasterone and lead directly from (22S,24R)-22-hydroxy-5 α -ergostan-3-one and 3-epi-6-deoxocathasterone to 3-dehydro-6-deoxoteasterone and 6-deoxotyphasterol.

Synonyms

cytochrome P450 90C1; CYP90D1; CYP90C1

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.112

Reaction

(1) 3-epi-6-deoxocathasterone + NADPH + H⁺ + O₂ = 6-deoxotyphasterol + NADP⁺ + H₂O; (2) (22S,24R)-22-hydroxy-5 α -ergostan-3-one + NADPH + H⁺ + O₂ = 3-dehydro-6-deoxoteasterone + 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.