

3 α ,7 α ,12 α -trihydroxy-5 β -cholestanoyl-CoA 24-hydroxylase

Cat. No. EXWM-1103

Lot. No. (See product label)

Introduction

Description

Requires ATP. The reaction in mammals possibly involves dehydrogenation to give a 24(25)-double bond followed by hydration. However, in amphibians such as the Oriental fire-bellied toad (*Bombina orientalis*), it is probable that the product is formed via direct hydroxylation of the saturated side chain of (25R)-3 α ,7 α ,12 α -trihydroxy-5 β -cholestan-26-oate and not via hydration of a 24(25) double bond. In microsomes, the free acid is preferred to the coenzyme A ester, whereas in mitochondria, the coenzyme A ester is preferred to the free-acid form of the substrate.

Synonyms

trihydroxycoprostanoyl-CoA oxidase; THC-CoA oxidase; THCA-CoA oxidase; 3 α ,7 α ,12 α -trihydroxy-5 β -cholestanoyl-CoA oxidase; 3 α ,7 α ,12 α -trihydroxy-5 β -cholestan-26-oate 24-hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.17.99.3

CAS No.

119799-47-2

Reaction

(25R)-3 α ,7 α ,12 α -trihydroxy-5 β -cholestan-26-oyl-CoA + H₂O + acceptor = (24R,25R)-3 α ,7 α ,12 α ,24-tetrahydroxy-5 β -cholestan-26-oyl-CoA + reduced acceptor

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.