Creative Enzymes®

3α,7α,12α-trihydroxy-5β-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)-3α,7α,12α-trihydroxy-5β-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; 3α,7α,12α-trihydroxy-5β-cholestanoyl-CoA oxidase; 3α,7α,12α-trihydroxy-5β-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)-3α,7α,12α-trihydroxy-5β-cholestan-26-oyl-CoA + H2O + acceptor = (24R,25R)-3α,7α,12α,24-tetrahydroxy-5β-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.