

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)-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;

 $3\alpha,7\alpha,12\alpha$ -trihydroxy-5 β -cholestanoyl-CoA oxidase; $3\alpha,7\alpha,12\alpha$ -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 =

 $(24R,25R)-3\alpha,7\alpha,12\alpha,24$ -tetrahydroxy-5 β -cholestan-2 δ -oyl-CoA + reduced acceptor

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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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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