

24-hydroxycholesterol 7 α -hydroxylase

Cat. No. EXWM-0923

Lot. No. (See product label)

Introduction

Description

A P450 heme-thiolate protein that is found in liver microsomes and in ciliary non-pigmented epithelium. The enzyme is specific for (24S)-cholest-5-ene-3 β ,24-diol, which is formed mostly in the brain by EC 1.14.14.25, cholesterol 24-hydroxylase. The direct electron donor to the enzyme is EC 1.6.2.4, NADPH-hemoprotein reductase.

Synonyms

24-hydroxycholesterol 7 α -monooxygenase; CYP39A1; CYP39A1 oxysterol 7 α -hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.14.26

CAS No.

288309-90-0

Reaction

(24S)-cholest-5-ene-3 β ,24-diol + [reduced NADPH-hemoprotein reductase] + O₂ = (24S)-cholest-5-ene-3 β ,7 α ,24-triol + [oxidized NADPH-hemoprotein reductase] + 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.