

cholesterol 24-hydroxylase

Cat. No. EXWM-0922

Lot. No. (See product label)

Introduction

Description A P-450 heme-thiolate protein. The enzyme can also produce 25-hydroxycholesterol. In addition, it can

further hydroxylate the product to 24,25-dihydroxycholesterol and 24,27-dihydroxycholesterol. This reaction is the first step in the enzymic degradation of cholesterol in the brain as hydroxycholesterol can pass the blood-brain barrier whereas cholesterol cannot. The direct electron donor to the enzyme is EC

1.6.2.4, NADPH-hemoprotein reductase.

Synonyms cholesterol 24-monooxygenase; CYP46; CYP46A1; cholesterol 24S-hydroxylase; cytochrome P450 46A1

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.14.25

CAS No. 50812-30-1, 213327-78-7

Reaction cholesterol + [reduced NADPH-hemoprotein reductase] + O2 = (24S)-cholest-5-ene-3 β ,24-diol + [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

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

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