

## cholesterol 7 $\alpha$ -monooxygenase

Cat. No. EXWM-0920

Lot. No. (See product label)

### Introduction

#### Description

A P-450 heme-thiolate liver protein that catalyses the first step in the biosynthesis of bile acids. The direct electron donor to the enzyme is EC 1.6.2.4, NADPH-hemoprotein reductase.

#### Synonyms

cholesterol 7 $\alpha$ -hydroxylase; CYP7A1 (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.14.23

#### CAS No.

9037-53-0

#### Reaction

cholesterol + [reduced NADPH-hemoprotein reductase] + O<sub>2</sub> = 7 $\alpha$ -hydroxycholesterol + [oxidized NADPH-hemoprotein reductase] + H<sub>2</sub>O

#### 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.