

## 7 $\alpha$ -hydroxycholest-4-en-3-one 12 $\alpha$ -hydroxylase

Cat. No. EXWM-0970

Lot. No. (See product label)

### Introduction

**Description** A P-450 heme-thiolate protein. Requires EC 1.6.2.4, NADPH-hemoprotein reductase and cytochrome b5 for maximal activity. This enzyme is important in bile acid biosynthesis, being responsible for the balance between the formation of cholic acid and chenodeoxycholic acid.

**Synonyms** 7 $\alpha$ -hydroxy-4-cholesten-3-one 12 $\alpha$ -monooxygenase; CYP12; sterol 12 $\alpha$ -hydroxylase (ambiguous); HCO 12 $\alpha$ -hydroxylase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.18.8

**Reaction** 7 $\alpha$ -hydroxycholest-4-en-3-one + 2 ferrocytochrome b5 + 2 H<sup>+</sup> + O<sub>2</sub> = 7 $\alpha$ ,12 $\alpha$ -dihydroxycholest-4-en-3-one + 2 ferricytochrome b5 + 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.