

## 5β-cholestane-3α,7α-diol 12α-hydroxylase

Cat. No. EXWM-0904

Lot. No. (See product label)

### Introduction

#### Description

A heme-thiolate protein (P-450). This is the key enzyme in the biosynthesis of the bile acid cholic acid (3α,7α,12α-trihydroxy-5β-cholanoic acid). The activity of this enzyme determines the biosynthetic ratio between cholic acid and chenodeoxycholic acid. The enzyme can also hydroxylate the substrate at the 25 and 26 position, but to a lesser extent.

#### Synonyms

5β-cholestane-3α,7α-diol 12α-monooxygenase; sterol 12α-hydroxylase (ambiguous); CYP8B1; cytochrome P450 8B1

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.96

#### Reaction

5β-cholestane-3α,7α-diol + NADPH + H<sup>+</sup> + O<sub>2</sub> = 5β-cholestane-3α,7α,12α-triol + NADP<sup>+</sup> + 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.