

## steroid 21-monooxygenase

Cat. No. EXWM-0913

Lot. No. (See product label)

### Introduction

#### Description

A P-450 heme-thiolate protein responsible for the conversion of progesterone and 17 $\alpha$ -hydroxyprogesterone to their respective 21-hydroxylated derivatives, 11-deoxycorticosterone and 11-deoxycortisol. Involved in the biosynthesis of the hormones aldosterone and cortisol. The electron donor is EC 1.6.2.4, NADPH-hemoprotein reductase.

#### Synonyms

steroid 21-hydroxylase; 21-hydroxylase; P450c21; CYP21A2 (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.14.16

#### CAS No.

9029-68-9

#### Reaction

a C21 steroid + [reduced NADPH-hemoprotein reductase] + O<sub>2</sub> = a 21-hydroxy-C21-steroid + [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.