

## **Δ4-3-oxosteroid 5β-reductase**

Cat. No. EXWM-1303

Lot. No. (See product label)

## Introduction

**Description** The enzyme from human efficiently catalyses the reduction of progesterone,

androstenedione,  $17\alpha$ -hydroxyprogesterone and testosterone to  $5\beta$ -reduced metabolites; it can also act on aldosterone, corticosterone and cortisol, but to a lesser extent. The bile acid intermediates  $7\alpha$ ,  $12\alpha$ -dihydroxy-4-cholesten-3-one and

 $7\alpha$ -hydroxy-4-cholesten-3-one can also act as substrates.

**Synonyms** 3-oxo-Δ4-steroid  $5\beta$ -reductase;  $5\beta$ -reductase; androstenedione  $5\beta$ -reductase;

cholestenone  $5\beta\text{-reductase};$  cortisone  $5\beta\text{-reductase};$  cortisone  $\beta\text{-reductase};$ 

cortisone  $\Delta 4\text{-}5\beta\text{-reductase};$  steroid  $5\beta\text{-reductase};$  testosterone  $5\beta\text{-reductase};$   $\Delta 4\text{-}3\text{-}$ 

dihydrocortisone:NADP+ Δ4-oxidoreductase; 3-oxo-5β-steroid:NADP+ Δ4-

ketosteroid 5β-reductase; Δ4-5β-reductase; Δ4-hydrogenase; 4,5β-

oxidoreductase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.1.3

*CAS No.* 9029-08-7

Reaction (1)  $5\beta$ -cholestan-3-one + NADP+ = cholest-4-en-3-one + NADPH + H+; (2) 17,21-

dihydroxy-5 $\beta$ -pregnane-3,11,20-trione + NADP+ = cortisone + NADPH + H+

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**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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