

## $\Delta$ 4-3-oxosteroid 5 $\beta$ -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- $\Delta$ 4-steroid 5 $\beta$ -reductase; 5 $\beta$ -reductase; androstenedione 5 $\beta$ -reductase; cholestenone 5 $\beta$ -reductase; cortisone 5 $\beta$ -reductase; cortisone  $\beta$ -reductase; cortisone  $\Delta$ 4-5 $\beta$ -reductase; steroid 5 $\beta$ -reductase; testosterone 5 $\beta$ -reductase;  $\Delta$ 4-3-ketosteroid 5 $\beta$ -reductase;  $\Delta$ 4-5 $\beta$ -reductase;  $\Delta$ 4-hydrogenase; 4,5 $\beta$ -dihydrocortisone:NADP+  $\Delta$ 4-oxidoreductase; 3-oxo-5 $\beta$ -steroid:NADP+  $\Delta$ 4-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+

**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.