

## 3-oxo-5 $\alpha$ -steroid 4-dehydrogenase (NADP+)

Cat. No. EXWM-1297

Lot. No. (See product label)

### Introduction

#### Description

The enzyme catalyses the conversion of assorted 3-oxo- $\Delta$ 4 steroids into their corresponding 5 $\alpha$  form. Substrates for the mammalian enzyme include testosterone, progesterone, and corticosterone. Substrates for the plant enzyme are brassinosteroids such as campest-4-en-3-one and (22 $\alpha$ )-hydroxy-campest-4-en-3-one. cf. EC 1.3.99.5, 3-oxo-5 $\alpha$ -steroid 4-dehydrogenase (acceptor).

#### Synonyms

cholestenone 5 $\alpha$ -reductase; testosterone  $\Delta$ 4-5 $\alpha$ -reductase; steroid 5 $\alpha$ -reductase; 3-oxosteroid  $\Delta$ 4-dehydrogenase; 5 $\alpha$ -reductase; steroid 5 $\alpha$ -hydrogenase; 3-oxosteroid 5 $\alpha$ -reductase; testosterone  $\Delta$ 4-hydrogenase; 4-ene-3-oxosteroid 5 $\alpha$ -reductase; reduced nicotinamide adenine dinucleotide phosphate: $\Delta$ 4-3-ketosteroid 5 $\alpha$ -oxidoreductase; 4-ene-5 $\alpha$ -reductase;  $\Delta$ 4-3-ketosteroid 5 $\alpha$ -oxidoreductase; cholest-4-en-3-one 5 $\alpha$ -reductase; testosterone 5 $\alpha$ -reductase; 3-oxo-5 $\alpha$ -steroid 4-dehydrogenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.1.22

#### CAS No.

37255-34-8

#### Reaction

a 3-oxo-5 $\alpha$ -steroid + NADP+ = a 3-oxo- $\Delta$ 4-steroid + 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.