

3-oxo-5 α -steroid 4-dehydrogenase (NADP+)

Cat. No. EXWM-1297

Lot. No. (See product label)

Introduction

Description The enzyme catalyses the conversion of assorted 3-oxo- Δ 4 steroids into their corresponding 5 α 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 α)-hydroxy-campest-4-en-3-one. cf. EC 1.3.99.5, 3-oxo-5 α -steroid 4-dehydrogenase (acceptor).

Synonyms cholestenone 5 α -reductase; testosterone Δ 4-5 α -reductase; steroid 5 α -reductase; 3-oxosteroid Δ 4-dehydrogenase; 5 α -reductase; steroid 5 α -hydrogenase; 3-oxosteroid 5 α -reductase; testosterone Δ 4-hydrogenase; 4-ene-3-oxosteroid 5 α -reductase; reduced nicotinamide adenine dinucleotide phosphate: Δ 4-3-ketosteroid 5 α -oxidoreductase; 4-ene-5 α -reductase; Δ 4-3-ketosteroid 5 α -oxidoreductase; cholest-4-en-3-one 5 α -reductase; testosterone 5 α -reductase; 3-oxo-5 α -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 α -steroid + NADP+ = a 3-oxo- Δ 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.