Creative Enzymes®

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

Cat. No. EXWM-1297

Lot. No. (See product label)

Introduction

Description	The enzyme catalyses the conversion of assorted 3-oxo-Δ4 steroids into their corresponding 5α 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 (22α)-hydroxy-campest-4-en-3-one. cf. EC 1.3.99.5, 3-oxo-5α-steroid 4-dehydrogenase (acceptor).
Synonyms	cholestenone 5α-reductase; testosterone Δ4-5α-reductase; steroid 5α-reductase; 3-oxosteroid Δ4-dehydrogenase; 5α-reductase; steroid 5α-hydrogenase; 3-oxosteroid 5α-reductase; testosterone Δ4-hydrogenase; 4-ene-3-oxosteroid 5α-reductase; reduced nicotinamide adenine dinucleotide phosphate:Δ4-3-ketosteroid 5α-oxidoreductase; 4-ene-5α-reductase; Δ4-3-ketosteroid 5α-oxidoreductase; cholest-4-en-3-one 5α-reductase; testosterone 5α-reductase; 3-oxo-5α-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-5α-steroid + NADP+ = a 3-oxo-Δ4-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.