

Δ^4 -3-oxosteroid 5 β -reductase

Cat. No. EXWM-1303

Lot. No. (See product label)

Introduction

Description The enzyme from human efficiently catalyses the reduction of progesterone, androstenedione, 17 α -hydroxyprogesterone and testosterone to 5 β -reduced metabolites; it can also act on aldosterone, corticosterone and cortisol, but to a lesser extent. The bile acid intermediates 7 α ,12 α -dihydroxy-4-cholesten-3-one and 7 α -hydroxy-4-cholesten-3-one can also act as substrates.

Synonyms 3-oxo- Δ^4 -steroid 5 β -reductase; 5 β -reductase; androstenedione 5 β -reductase; cholestenone 5 β -reductase; cortisone 5 β -reductase; cortisone β -reductase; cortisone Δ^4 -5 β -reductase; steroid 5 β -reductase; testosterone 5 β -reductase; Δ^4 -3-ketosteroid 5 β -reductase; Δ^4 -5 β -reductase; Δ^4 -hydrogenase; 4,5 β -dihydrocortisone:NADP+ Δ^4 -oxidoreductase; 3-oxo-5 β -steroid:NADP+ Δ^4 -oxidoreductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.1.3

CAS No. 9029-08-7

Reaction (1) 5 β -cholestan-3-one + NADP+ = cholest-4-en-3-one + NADPH + H+; (2) 17,21-dihydroxy-5 β -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.