

Δ4-3-oxosteroid 5β-reductase

Cat. No. EXWM-1303

Lot. No. (See product label)

Introduction

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

Synonyms 3-oxo-Δ4-steroid 5β-reductase; 5β-reductase; androstenedione 5β-reductase; cholestenone 5β-reductase; cortisone 5β-reductase; cortisone β-reductase; cortisone Δ4-5β-reductase; steroid 5β-reductase; testosterone 5β-reductase; Δ4-3-ketosteroid 5β-reductase; Δ4-5β-reductase; Δ4-hydrogenase; 4,5β-dihydrocortisone:NADP+ Δ4-oxidoreductase; 3-oxo-5β-steroid:NADP+ Δ4-oxidoreductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.3.1.3

CAS No. 9029-08-7

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