

Native *Pseudomonas testosteroni* 3 α -Hydroxysteroid Dehydrogenase

Cat. No. NATE-0007

Lot. No. (See product label)

Introduction

Description In enzymology, a 3 α -hydroxysteroid dehydrogenase (B-specific) (EC 1.1.1.50) is an enzyme that catalyzes the chemical reaction: androsterone + NAD (P)⁺ \leftrightarrow 5 α -androstane-3,17-dione + NAD (P)H + H⁺. The 3 substrates of this enzyme are androsterone, NAD⁺, and NADP⁺, whereas its 4 products are 5 α -androstane-3,17-dione, NADH, NADPH, and H⁺. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD⁺ or NADP⁺ as acceptor, more specifically it is part of the group of hydroxysteroid dehydrogenases.

Synonyms hydroxyprostaglandin dehydrogenase; 3 α -hydroxysteroid oxidoreductase; sterognost 3 α ; 3 α -hydroxysteroid dehydrogenase (B-specific); 3 α -hydroxysteroid 3-dehydrogenase (B-specific); 3 α -hydroxysteroid:NAD (P)⁺ 3-oxidoreductase (B-specific); EC 1.1.1.50

Product Information

Source *Pseudomonas testosteroni*

Form Lyophilized powder containing potassium phosphate buffer salt and EDTA

EC Number EC 1.1.1.50

CAS No. 9028-56-2

Activity > 15 units/mg protein

Unit Definition One unit will oxidize 1.0 μ mole of androsterone per min at pH 8.9 at 25°C in the presence of β -NAD⁺.

Storage and Shipping Information

Storage -20°C