Creative Enzymes®

Native Pseudomonas testosteroni 3α-Hydroxysteroid Dehydrogenase

Cat. No. NATE-0007

Lot. No. (See product label)

Introduction

Description	In enzymology, a 3alpha-hydroxysteroid dehydrogenase (B-specific) (EC 1.1.1.50) is an enzyme that catalyzes the chemical reaction:androsterone + NAD (P)+↔ 5alpha-androstane-3,17-dione + NAD (P)H + H+. The 3 substRates of this enzyme are androsterone, NAD+, and NADP+, whereas its 4 products are 5alpha-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; 3α-hydroxysteroid oxidoreductase; sterognost 3α; 3α-hydroxysteroid dehydrogenase (B-specific); 3α-hydroxysteroid 3-dehydrogenase (B-specific); 3α-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 µmole of androsterone per min at pH 8.9 at 25°C in the presence of β-NAD+.

Storage and Shipping Information

Storage	−20°C