Creative Enzymes®

Native Thermoanaerobium sp. Aromatic Alcohol Dehydrogenase, NADP+ dependent

Cat. No. NATE-0063

Lot. No. (See product label)

Introduction

Description	Alcohol dehydrogenase [NADP+] also known as aldehyde reductase or aldo-keto reductase family 1 member A1 is an enzyme that in humans is encoded by the AKR1A1 gene. This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member, also known as aldehyde reductase, is involved in the reduction of biogenic and xenobiotic aldehydes and is present in virtually every tissue. Alternative splicing of this gene results in two transcript variants encoding the same protein.
Synonyms	EC 1.1.1.2; Aromatic Alcohol Dehydrogenase; Alcohol:NADP+ oxidoreductase; AKR1A1; ALDR1; ALR; ARM; DD3; HEL-S-6; aldehyde reductase; aldo-keto reductase family 1 member A1; alcohol dehydrogenase (NADP+); aldehyde reductase (NADPH2); NADP-alcohol dehydrogenase; NADP+-aldehyde reductase; NADP+-dependent aldehyde reductase; NADPH-aldehyde reductase; NADPH-dependent aldehyde reductase; nonspecific succinic semialdehyde reductase; ALR 1; low-Km aldehyde reductase; high-Km aldehyde reductase; alcohol dehydrogenase (NADP)

Product Information

Source	Thermoanaerobium sp.
Form	lyophilized powder
EC Number	EC 1.1.1.2
CAS No.	9028-12-0
Activity	1-5 units/mg solid
Composition	Protein, ~5% Bradford
Buffer	Lyophilized powder containing raffinose, dithiothreitol, and potassium phosphate buffer salt.
Unit Definition	One unit will oxidize 1.0 µmole of 2-propanol to acetone per min at pH 9.0 at 50°C.

Storage and Shipping Information

Stability	−20°C