

## Native *Thermoanaerobium* sp. Aromatic Alcohol Dehydrogenase, NADP<sup>+</sup> dependent

Cat. No. NATE-0063

Lot. No. (See product label)

### Introduction

**Description** Alcohol dehydrogenase [NADP<sup>+</sup>] 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<sup>+</sup> oxidoreductase; AKR1A1; ALDR1; ALR; ARM; DD3; HEL-S-6; aldehyde reductase; aldo-keto reductase family 1 member A1; alcohol dehydrogenase (NADP<sup>+</sup>); aldehyde reductase (NADPH<sub>2</sub>); NADP-alcohol dehydrogenase; NADP<sup>+</sup>-aldehyde reductase; NADP<sup>+</sup>-dependent aldehyde reductase; NADPH-aldehyde reductase; NADPH-dependent aldehyde reductase; nonspecific succinic semialdehyde reductase; ALR 1; low-K<sub>m</sub> aldehyde reductase; high-K<sub>m</sub> 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