

## Alcohol Dehydrogenase (NADP<sup>+</sup> dependent) from Entamoeba species, Recombinant

Cat. No. NATE-1590

Lot. No. (See product label)

### Introduction

**Description** NADP-dependent isopropanol dehydrogenase belongs to the superfamily of alcohol dehydrogenases with a preference for medium chain secondary alcohols, such as 2- butanol and isopropanol, while it has low activity with primary alcohols, such as ethanol. Under physiological conditions, the enzyme reduces aldehydes and 2-ketones to produce secondary alcohols. It is also active with acetaldehyde and propionaldehyde.

**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-Km aldehyde reductase; high-Km aldehyde reductase; alcohol dehydrogenase (NADP)

### Product Information

**Species** Entamoeba species

**Source** E. coli

**Form** Liquid, 1 mg/mL solution in 50 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl and 50% glycerol

**Molecular Weight** ~40.9 kDa (SDS-PAGE)

**Purity** > 95% by SDS-PAGE

**Activity** > 60U/mg

**Unit Definition** One unit is the amount of enzyme that will generate 1.0 μmole of NADPH per minute at pH 8 at 37°C.

### Storage and Shipping Information

**Storage** Aliquot and store at -20°C. Avoid repeated freeze thaw cycles.