

## benzaldehyde dehydrogenase (NAD+)

Cat. No. EXWM-1134

Lot. No. (See product label)

### Introduction

**Description** This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor. The systematic name of this enzyme class is benzaldehyde:NAD<sup>+</sup> oxidoreductase. Other names in common use include benzaldehyde (NAD<sup>+</sup>) dehydrogenase, and benzaldehyde dehydrogenase (NAD<sup>+</sup>). This enzyme participates in benzoate degradation via hydroxylation and toluene and xylene degradation.

**Synonyms** benzaldehyde (NAD) dehydrogenase; benzaldehyde dehydrogenase (NAD)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.2.1.28

**CAS No.** 37250-93-4

**Reaction** benzaldehyde + NAD<sup>+</sup> + H<sub>2</sub>O = benzoate + NADH + 2 H<sup>+</sup>

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.