

## 4-trimethylammoniobutyraldehyde dehydrogenase

Cat. No. EXWM-1150

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 4-trimethylammoniobutanal:NAD<sup>+</sup> 1-oxidoreductase. Other names in common use include 4-trimethylaminobutyraldehyde dehydrogenase, and 4-N-trimethylaminobutyraldehyde dehydrogenase. This enzyme participates in lysine degradation and carnitine biosynthesis.

#### Synonyms

4-trimethylaminobutyraldehyde dehydrogenase; 4-N-trimethylaminobutyraldehyde dehydrogenase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.2.1.47

**CAS No.** 73361-01-0

**Reaction** 4-trimethylammoniobutanal + NAD<sup>+</sup> + H<sub>2</sub>O = 4-trimethylammoniobutanoate + 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.