

propanal dehydrogenase (CoA-propanoylating)

Cat. No. EXWM-1190

Lot. No. (See product label)

Introduction

Description

The enzyme forms a bifunctional complex with EC 4.1.3.43, 4-hydroxy-2-oxohexanoate aldolase, with a tight channel connecting the two subunits. Also acts, more slowly, on glycolaldehyde and butanal. In *Pseudomonas* species the enzyme forms a bifunctional complex with EC 4.1.3.39, 4-hydroxy-2-oxovalerate aldolase. The enzymes from the bacteria *Burkholderia xenovorans* and *Thermus thermophilus* also perform the reaction of EC 1.2.1.10, acetaldehyde dehydrogenase (acetylating). NADP⁺ can replace NAD⁺ with a much slower rate.

Synonyms

BphJ

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.2.1.87

Reaction

propanal + CoA + NAD⁺ = propanoyl-CoA + NADH + H⁺

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.