Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.