

acetoin dehydrogenase

Cat. No. EXWM-2133

Lot. No. (See product label)

Introduction

Description

Requires thiamine diphosphate. This enzyme, which belongs to the family of 2-oxo acid dehydrogenase complexes, catalyses the oxidative-hydrolytic cleavage of acetoin to acetaldehyde and acetyl-CoA in many bacterial strains, both aerobic and anaerobic. The enzyme is composed of multiple copies of three enzymic components: acetoin oxidoreductase (E1), dihydrolipoamide acetyltransferase (E2) and dihydrolipoyl dehydrogenase (E3).

Synonyms

acetoin dehydrogenase complex; acetoin dehydrogenase enzyme system; AoDH ES

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.3.1.190

Reaction

acetoin + CoA + NAD⁺ = acetaldehyde + acetyl-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.