Creative Enzymes®

diacetyl reductase [(S)-acetoin forming]

Cat. No. EXWM-0215

Lot. No. (See product label)

Introduction

Description	The reaction is catalysed in the reverse direction. This activity is usually associated with butanediol dehydrogenase activity (EC 1.1.1.4 or EC 1.1.1.76). While the butanediol dehydrogenase activity is reversible, diacetyl reductase activity is irreversible. This enzyme has been reported in the bacteria Geobacillus stearothermophilus, Enterobacter aerogenes and Klebsiella pneumoniae. Different from EC 1.1.1.303, diacetyl reductase [(R)-acetoin forming].
Synonyms	(S)-acetoin dehydrogenase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.304
Reaction	(S)-acetoin + NAD+ = diacetyl + 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 ℃.