Creative Enzymes®

formaldehyde dismutase

Cat. No. EXWM-1232

Lot. No. (See product label)

Introduction

Description	The enzyme contains a tightly but noncovalently bound NADP(H) cofactor, as well as Zn2+ and Mg2+. Enzyme-bound NADPH formed by oxidation of formaldehyde to formate is oxidized back to NADP+ by reaction with a second formaldehyde, yielding methanol. The enzyme from the bacterium Mycobacterium sp. DSM 3803 also catalyses the reactions of EC 1.1.99.36, alcohol dehydrogenase (nicotinoprotein) and EC 1.1.99.37, methanol dehydrogenase (nicotinoprotein). Formaldehyde and acetaldehyde can act as donors; formaldehyde, acetaldehyde and propanal can act as acceptors.
Synonyms	aldehyde dismutase; cannizzanase; nicotinoprotein aldehyde dismutase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.2.98.1
CAS No.	85204-94-0
Reaction	2 formaldehyde + H2O = formate + methanol
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 ℃.