Creative Enzymes®

L-serine 3-dehydrogenase (NAD+)

Cat. No. EXWM-0306

Lot. No. (See product label)

Introduction

Description	The enzyme, purified from the bacterium Pseudomonas aeruginosa, also shows activity with L-threonine (cf. EC 1.1.1.103, L-threonine 3-dehydrogenase). The enzyme has only very low activity with NADP+ [cf. EC 1.1.1.276, serine 3-dehydrogenase (NADP+)].
Synonyms	NAD+-dependent L-serine dehydrogenase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.387
Reaction	L-serine + NAD+ = 2-aminoacetaldehyde + CO2 + NADH + H+ (overall reaction); (1a) L-serine + NAD+ = 2-aminomalonate semialdehyde + NADH + H+; (1b) 2-aminomalonate semialdehyde = 2-aminoacetaldehyde + CO2 (spontaneous)
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 ℃.