

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