

## carboxynorspermidine synthase

Cat. No. EXWM-1524

Lot. No. (See product label)

## Introduction

**Description** The reaction takes place in the opposite direction. Part of a bacterial polyamine biosynthesis pathway. L-

aspartate 4-semialdehyde and propane-1,3-diamine/putrescine form a Schiff base that is reduced to form carboxynorspermidine/carboxyspermidine, respectively. The enzyme from the bacterium Vibrio cholerae

is essential for biofilm formation. The enzyme from Campylobacter jejuni only produces carboxyspermidine in vivo even though it also can produce carboxynorspermidine in vitro.

**Synonyms** carboxynorspermidine dehydrogenase; carboxyspermidine dehydrogenase; CASDH; CANSDH; VC1624

(gene name)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.5.1.43

**Reaction** (1) carboxynorspermidine + H2O + NADP+ = L-aspartate 4-semialdehyde + propane-1,3-diamine +

NADPH + H+; (2) carboxyspermidine + H2O + NADP+ = L-aspartate 4-semialdehyde + putrescine +

NADPH + 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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