

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-

1/1

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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