

## N1-aminopropylagmatine synthase

Cat. No. EXWM-2720

Lot. No. (See product label)

### Introduction

#### Description

The enzyme is involved in the biosynthesis of spermidine from agmatine in some archaea and bacteria. The enzyme from the Gram-negative bacterium *Thermus thermophilus* accepts agmatine, spermidine and norspermidine with similar catalytic efficiency. The enzymes from the archaea *Pyrococcus furiosus* and *Thermococcus kodakarensis* prefer agmatine, but can utilize cadaverine, putrescine and propane-1,3-diamine with much lower catalytic efficiency. cf. EC 2.5.1.16, spermidine synthase, and EC 2.5.1.23, sym-norspermidine synthase.

#### Synonyms

agmatine/cadaverine aminopropyl transferase; ACAPT; PF0127 (gene name); triamine/agmatine aminopropyltransferase; SpeE; agmatine aminopropyltransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.104

#### Reaction

S-adenosyl 3-(methylthio)propylamine + agmatine = S-methyl-5'-thioadenosine + N1-(3-aminopropyl)agmatine

#### 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.