

## N4-bis(aminopropyl)spermidine synthase

Cat. No. EXWM-2744

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from the thermophilic archaeon *Thermococcus kodakarensis*, synthesizes the branched-chain polyamine N4-bis(aminopropyl)spermidine, which is required for cell growth at high-temperature. When spermine is used as substrate, the enzyme forms N4-aminopropylspermine.

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.128

#### Reaction

2 S-adenosyl 3-(methylthio)propylamine + spermidine = 2 S-methyl-5'-thioadenosine + N4-bis(aminopropyl)spermidine (overall reaction); (1a) S-adenosyl 3-(methylthio)propylamine + spermidine = S-methyl-5'-thioadenosine + N4-aminopropylspermidine; (1b) S-adenosyl 3-(methylthio)propylamine + N4-aminopropylspermidine = S-methyl-5'-thioadenosine + N4-bis(aminopropyl)spermidine

#### 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.