

## 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**  $2 \text{ S-adenosyl 3-(methylthio)propylamine} + \text{spermidine} = 2 \text{ S-methyl-5'-thioadenosine} + \text{N4-bis(aminopropyl)spermidine}$  (overall reaction); (1a)  $\text{S-adenosyl 3-(methylthio)propylamine} + \text{spermidine} = \text{S-methyl-5'-thioadenosine} + \text{N4-aminopropylspermidine}$ ; (1b)  $\text{S-adenosyl 3-(methylthio)propylamine} + \text{N4-aminopropylspermidine} = \text{S-methyl-5'-thioadenosine} + \text{N4-bis(aminopropyl)spermidine}$

**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.