

## L-histidine N $\alpha$ -methyltransferase

Cat. No. EXWM-1948

Lot. No. (See product label)

### Introduction

**Description** Part of the biosynthetic pathway of ergothioneine.

**Synonyms** dimethylhistidine N-methyltransferase; dimethylhistidine methyltransferase; histidine- $\alpha$ -N-methyltransferase; S-adenosyl-L-methionine: $\alpha$ -N, $\alpha$ -N-dimethyl-L-histidine  $\alpha$ -N-methyltransferase; S-adenosyl-L-methionine:N $\alpha$ ,N $\alpha$ -dimethyl-L-histidine N $\alpha$ -methyltransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.1.1.44

**CAS No.** 62213-53-0

**Reaction** 3 S-adenosyl-L-methionine + L-histidine = 3 S-adenosyl-L-homocysteine + hercynine (overall reaction); (1a) S-adenosyl-L-methionine + L-histidine = S-adenosyl-L-homocysteine + N $\alpha$ -methyl-L-histidine; (1b) S-adenosyl-L-methionine + N $\alpha$ -methyl-L-histidine = S-adenosyl-L-homocysteine + N $\alpha$ ,N $\alpha$ -dimethyl-L-histidine; (1c) S-adenosyl-L-methionine + N $\alpha$ ,N $\alpha$ -dimethyl-L-histidine = S-adenosyl-L-homocysteine + hercynine

**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.