

glycine/sarcosine/dimethylglycine N-methyltransferase

Cat. No. EXWM-1759

Lot. No. (See product label)

Introduction

Description Unlike EC 2.1.1.156 (glycine/sarcosine N-methyltransferase), EC 2.1.1.157 (sarcosine/dimethylglycine N-methyltransferase) and EC 2.1.1.161 (dimethylglycine N-methyltransferase), this enzyme, from the halophilic methanococcus Methanohalophilus portucalensis, can methylate glycine and all of its intermediates to form the compatible solute betaine.

Synonyms GSDMT; glycine sarcosine dimethylglycine N-methyltransferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.1.1.162

Reaction 3 S-adenosyl-L-methionine + glycine = 3 S-adenosyl-L-homocysteine + betaine (overall reaction); (1a) S-adenosyl-L-methionine + glycine = S-adenosyl-L-homocysteine + sarcosine; (1b) S-adenosyl-L-methionine + sarcosine = S-adenosyl-L-homocysteine + N,N-dimethylglycine; (1c) S-adenosyl-L-methionine + N,N-dimethylglycine = S-adenosyl-L-homocysteine + betaine

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.