

Betaine Homocysteine S-methyltransferase, Recombinant

Cat. No. NATE-1684

Lot. No. (See product label)

Introduction

Description

In the field of enzymology, a betaine-homocysteine S-methyltransferase also known as betaine-homocysteine methyltransferase (BHMT) is a zinc metallo-enzyme that catalyzes the transfer of a methyl group from trimethylglycine and a hydrogen ion from homocysteine to produce dimethylglycine and methionine respectively:
Trimethylglycine (methyl donor) + homocysteine (hydrogen donor) → dimethylglycine (hydrogen receiver) + methionine (methyl receiver).

Synonyms

Betaine-homocysteine S-methyltransferase; Betaine homocysteine S-methyltransferase; Betaine-homocysteine S methyltransferase; Betaine homocysteine S methyltransferase; betaine-homocysteine methyltransferase; BHMT; 9029-78-1; EC 2.1.1.5

Product Information

Form

White powder, lyophilized

Formulation

0.05 M Tris base and 0.5 M NaCl (before lyophilizing)

EC Number

EC 2.1.1.5

CAS No.

9029-78-1

Molecular Weight

About 47 kDa (SDS-PAGE)

Purity

90% (SDS-PAGE test)

Isoelectric point

10

Optimum pH

8

Optimum temperature

37°C

Buffer

20mM Tris, 50mM Glycine, pH8.0

Storage and Shipping Information

Storage

4°C, store at -20°C for long-term preservation