

Recombinant human BHMT2 protein

Catalog Number: ATGP2672

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-363aa

UniProt No.

Q9H2M3

NCBI Accession No.

NP_060084

Alternative Names

S-methylmethionine-homocysteine S-methyltransferase BHMT2 isoform 1, betaine-homocysteine S-methyltransferase 2, SMM-hcy methyltransferase

PRODUCT SPECIFICATION

Molecular Weight

42.7 kDa (386aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BHMT2 is involved in the regulation of homocysteine metabolism. Homocysteine is a sulfur-containing amino acid that plays a crucial role in methylation reactions. Transfer of the methyl group from betaine to homocysteine creates methionine, which donates the methyl group to methylate DNA, proteins, lipids, and other intracellular metabolites. BHMT2 is one of two methyl transferases that can catalyze the transfer of the methyl group from betaine to homocysteine. Recombinant human BHMT2 protein, fused to His-tag at N-terminus, was

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expressed in *E. coli*.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAPAGRP GAKKGILERL ESGEVVIGDG SFLITLEKRG YVKAGLWTPE
AVIEHPDAVR QLHMEFLRAG SNVMQTFTFS ASEDNAMESKW EDVNAAACDL AREVAGKGDALVAGGICQTS IYKYQKDEAR
IKKLFRRQLE VFAWKNVDFL IAEYFEHVEE AVWAVEVLKE SDRPVAVTMC IGPEGDMHDI TPGECAVRLV KAGASIVGVN
CRFGPDTSLK TMELMKEGLE WAGLKAHLMV QPLGFHAPDC GKEGFVDLPE YPFGLESRVA TRWDIQKYAR EAYNLGVRYI
GGCCGFEPYH IRAIAEELAP ERGFLPPASE KHGSWGSGLD MHTKPWIRAR ARREYWENLL PASGRPFPCPS LSKPDF

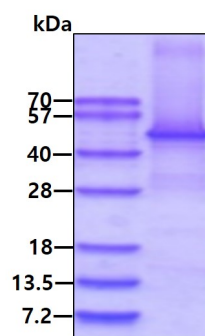
General References

Li F., et al. (2008) *Mol Genet Metab.* 94(3): 326-35.

Mostowaka A., et al. (2010) *Eur Oral Sci.* 118(4): 325-32.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.