

Recombinant Human BHMT2, His-tagged

Cat. No. BHMT2-179H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BHMT2, 1-363aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-363aa
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 expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	42.7 kDa (386aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAPAGRP GAKKGILERL ESGEVVIGDG SFLITLEKRG YVKAGLWTPE AVIEHPDAVR QLHMEFLRAG SNVMQTFDFS ASEDNMESKW EDVNAAACDL AREVAGKGDALVAGGICQTS IYKYQKDEAR IKKLFRQQLE VFAWKNVDFL IAEYFEHVEE AVWAVEVLKE SDRPVAVTMC IGPEGDMHDI TPGECAVRLV KAGASIVGVN CRFGPDTSK TMELMKEGLE

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WAGLKAHLMV QPLGFHAPDC GKEGFVDLPE YPFGLESRVA TRWDIQKYAR
EAYNLGVRYI GGCCGFEPYH IRAIAEELAP ERGFLPPASE KHGSWGSGLD
MHTKPWIRAR ARREYWENLL PASGRPFCPS LSKPDF

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name BHMT2 betaine--homocysteine S-methyltransferase 2 [Homo sapiens]

Official Symbol BHMT2

Synonyms BHMT2; betaine--homocysteine S-methyltransferase 2; S-methylmethionine--homocysteine S-methyltransferase BHMT2; SMM-hcy methyltransferase; betaine-homocysteine methyltransferase 2; FLJ20001;

Gene ID 23743

mRNA Refseq NM_001178005

Protein Refseq NP_001171476

MIM 605932

UniProt ID Q9H2M3

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Chromosome Location	5q13
Pathway	glycine betaine degradation, organism-specific biosystem; methionine salvage II (mammalia), organism-specific biosystem; superpathway of methionine degradation, organism-specific biosystem;
Function	betaine-homocysteine S-methyltransferase activity; homocysteine S-methyltransferase activity; metal ion binding; methyltransferase activity; transferase activity; zinc ion binding;

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