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 SNVMQTFTFS ASEDNMESKW EDVNAAACDL AREVAGKGDA LVAGGICQTS IYKYQKDEAR IKKLFRQQLE VFAWKNVDFL IAEYFEHVEE AVWAVEVLKE SDRPVAVTMC IGPEGDMHDI TPGECAVRLV KAGASIVGVN CRFGPDTSLK TMELMKEGLE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA