

Recombinant Human BHMT2, His-tagged

Cat. No. BHMT2-10224H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BHMT2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-363a.a.
Description	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. The protein encoded by this gene is one of two methyl transferases that can catalyze the transfer of the methyl group from betaine to homocysteine. Anomalies in homocysteine metabolism have been implicated in disorders ranging from vascular disease to neural tube birth defects such as spina bifida. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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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
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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