

Recombinant Human BHMT2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. BHMT2-346H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BHMT2 MS Standard C13 and N15-labeled recombinant protein (NP_060084) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. [provided by RefSeq, May 2010]
Molecular Mass	40.4 kDa
AA Sequence	MAPAGRPGAKKGILERLESGEVVIGDGSFLITLEKRGYVKAGLWTPEAVIEHPDAVR QLHMEFLRAGSNVMQTFTFSASEDNMESKWEDVNAAACDLAREVAGKGDALVAG GICQTSIYKYQKDEARIKKLFRQQLEVFawkNVDFLIAEYFEHVVEEAVWAVEVLKESD RPVAVTMCIGPEGDMHDITPGECAVRLVKAGASIVGVNCRFGPDTSLKTMELMKEG

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LEWAGLKAHLMVQPLGFHAPDCGKEGFVDLPEYPPFGLESRVATRWDIQKYAREAY
 NLGVRYIGGCCGFEPYHIRAIAEELAPERGFLLPASEKHGSGWGLDMHTKPWIRA
 RARREYWENLLPASGRPFPCPSLSKPDFTRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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_017614

Protein Refseq NP_060084

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MIM	605932
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UniProt ID	Q9H2M3
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