

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

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

## SPECIFICATION

<b>Product Overview</b>	BHMT2 MS Standard C13 and N15-labeled recombinant protein (NP_060084) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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]
<b>Molecular Mass</b>	40.4 kDa
<b>AA Sequence</b>	MAPAGRPGAKKGILERLESGEVVIGDGSFLITLEKRGYVKAGLWTPEAVIEHPDAVR QLHMEFLRAGSNVMQTFTFSASEDNMESKWEDVNAAACDLAREVAGKGDALVAG GICQTSIYKYQKDEARIKKLFRQQLEVFAWKNVDFLIAEYFEHVVEEAVWAVEVLKESD RPVAVTMCIGPEGDMHDITPGECAVRLVKAGASIVGVNCRFGPDTSLKTMELMKEG

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LEWAGLKAHLMVQPLGFHAPDCGKEGFVDLPEYPPFGLESRVATRWDIQKYAREAY  
 NLGVRYIGGCCGFEPYHIRAIAEELAPERGFLLPASEKHGSGWGSGLDMHTKPWIRA  
 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>MIM</b>	605932
------------	--------

<b>UniProt ID</b>	Q9H2M3
-------------------	--------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA