

## Recombinant Human BHMT2 Protein, GST-tagged

Cat. No. BHMT2-215H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human BHMT2 full-length ORF ( NP_060084.2, 1 a.a. - 363 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<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.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	66.8 kDa
<b>AA Sequence</b>	MAPAGRPGAKKGILERLESGEVVIGDGSFLITLEKRGYVKAGLWTPEAVIEHPDAVR QLHMEFLRAGSNVMQTFTFSASEDNMESKWEDVNAAACDLAREVAGKGDALVAG GICQTSIYKYQKDEARIKFLFRQQLEVFAWKNVDFLIAEYFEHVVEEAVWAVEVLKESD RPVAVTMCIGPEGDMHDITPGECAVRLVKAGASIVGVNCRFGPDTSLKTMELMKEG LEWAGLKAHLMVQPLGFHAPDCGKEGFVDLPEYPPGLESRVATRWDIQKYAREAY

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NLGVRYIGGCCGFEPYHIRAIAEELAPERGFLPPASEKHGSWGSLDMHTKPWIRA  
RARREYWENLLPASGRPFPCPSLSKPDF

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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

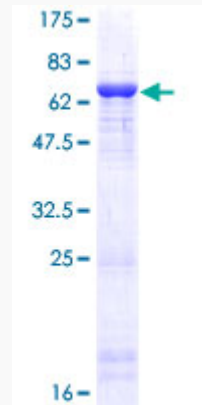
**MIM** 605932

**UniProt ID** Q9H2M3

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