

## Product datasheet for PH304661

### BHMT2 (NM\_017614) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	BHMT2 MS Standard C13 and N15-labeled recombinant protein (NP_060084)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204661
Predicted MW:	40.4 kDa
Protein Sequence:	>RC204661 protein sequence Red=Cloning site Green=Tags(s)
	MAPAGRPGAKKGILERLESSEVVIIGDGSFLITLEKRGYVKAGLWTPEAVIEHPDAVRQLHMEFLRAGSNV MQTFTFSASEDNMESKWEDVNAACDLAREVAGKGDALVAGGICQTSIYKYQKDEARIKKLFRQQLEVFA WKNVDFLIAEYFEHVVEEAVWAVEVLKESDRPVAVTMCIGPEGMDHITPGECAVRLVKAGASIVGVNCRF GPDTSCLKMELMKEGLEWAGLKAHLMVQPLGFHAPDCGKEGFVDLPEYPFGLSESRVATRWDIQKYAREAY NLGVRYIGGCCGFEPYHIRAIAEELAPERGFPPASEKHGSGWGLDMHTKPWIRARARREYWENLLPAS GRPFCPSLSKPDF
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_060084</u>
RefSeq Size:	2651
RefSeq ORF:	1089
Locus ID:	23743
UniProt ID:	<u>Q9H2M3, A0A024RAQ0</u>

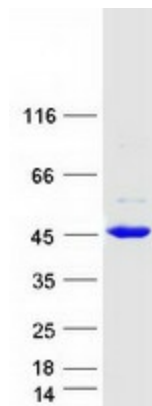


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Cytogenetics: 5q14.1

**Summary:** 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]

### Product images:



Coomassie blue staining of purified BHMT2 protein (Cat# [TP304661]). The protein was produced from HEK293T cells transfected with BHMT2 cDNA clone (Cat# [RC204661]) using MegaTran 2.0 (Cat# [TT210002]).