

Recombinant Human BHMT, His-tagged

Cat. No. BHMT-1232H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BHMT, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	This gene encodes a cytosolic enzyme that catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. Defects in this gene could lead to hyperhomocyst(e)inemia, but such a defect has not yet been observed.
Form	Liquid. 20mM Tris pH7.5, 20% glycerol.
Molecular Mass	49.2 kDa (443 aa), confirmed by MALDI-TOF.
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMPP VGGKKAKKGI LERLNAGEIV IGDGGFVFAL EKRGYVKAGP WTPEAAVEHP EAVRQLHREF LRAGSNVMQT FTFYASEDKL ENRGNYVLEK ISGQEVNEAA CDIARQVADE GDALVAGGVS QTPSYLSCKS ETEVKKVFLQ QLEVFMKKNV DFLIAEYFEH VEEAVWAVET LIASGKPVAA TMCIGPEGDL HGVPPGECAP RLVKAGASII GVNCHFDPTI SLKTVKLMKE GLEAARLKAH LMSQPLAYHT PDCNKQGFID LPEFPFGLPE RVATRWDIQK YAREAYNLGV RYIGGCCGFE PYHIRAIAEE LAPERGFLEPP ASEKHGWSGS GLDMHTKPWW RARARKEYWE NLRIASGRPY NPSMSKPDGW GVTKGTAELM QQKEATTEQQ LKELFEKQKF KSQ

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Purity	> 95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	BHMT betaine-homocysteine methyltransferase [Homo sapiens]
Official Symbol	BHMT
Synonyms	BHMT; BHMT1; HEL-S-61p; betaine-homocysteine methyltransferase; Betaine-homocysteine S-methyltransferase 1; EC 2.1.1.5; betaine homocysteine methyltransferase
Gene ID	635
mRNA Refseq	NM_001713
Protein Refseq	NP_001704
MIM	602888
UniProt ID	Q93088
Chromosome Location	5q14.1

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Pathway	Cysteine and methionine metabolism; Glycine, serine and threonine metabolism; Metabolism of amino acids and derivatives
Function	S-adenosylmethionine-homocysteine S-methyltransferase activity; betaine-homocysteine S-methyltransferase activity; protein complex binding

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