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### Recombinant human BHMT protein

Catalog Number: BHM0601

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-406aa

#### UniProt No.

093088

#### **NCBI Accession No.**

NP 001704.2

#### **Alternative Names**

Betaine-homocysteine S-methyltransferase 1, BHMT1, Betaine homocysteine methyltransferase

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

49.2 kDa (443aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Betaine-homocysteine methyltransferase (BHMT) is a cytosolic enzyme that catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. BHMT displays differential expression in a model of liver cirrhosis. Recombinant human BHMT, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

<MRGSHHHHHH GMASMTGGOQ MGRDLYDDDD KDRWGSH>MPP VGGKKAKKGI LERLNAGEIV IGDGGFVFAL



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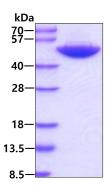
EKRGYVKAGP WTPEAAVEHP EAVRQLHREF LRAGSNVMQT FTFYASEDKL ENRGNYVLEK ISGQEVNEAA CDIARQVADE GDALVAGGVS QTPSYLSCKS ETEVKKVFLQ QLEVFMKKNV DFLIAEYFEH VEEAVWAVET LIASGKPVAA TMCIGPEGDL HGVPPGECAV RLVKAGASII GVNCHFDPTI SLKTVKLMKE GLEAARLKAH LMSQPLAYHT PDCNKQGFID LPEFPFGLEP RVATRWDIQK YAREAYNLGV RYIGGCCGFE PYHIRAIAEE LAPERGFLPP ASEKHGSWGS GLDMHTKPWV RARARKEYWE NLRIASGRPY NPSMSKPDGW GVTKGTAELM QQKEATTEQQ LKELFEKQKF KSQ

#### **General References**

Nandita, et al., Protein Expr Purif (2002) 25:73-80 Breksa, A P et al., Biochemistry (1999) 38:13991-8

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

