Recombinant human BHMT protein

Catalog Number: BHM0601

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-406aa

UniProt No.
Q93088

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 GMASMTGGQQ MGRDLYDDDD KDRWGSH>MPP VGGKKAKKGI LERLNAGEIV IGDGGFVFAL

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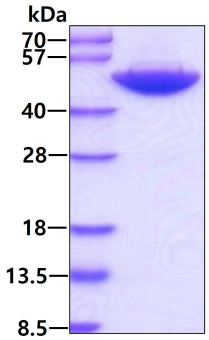
EKRGYVKAGP WTPEAAVEHP EAVRQLHREF LRAGSNVMQT FTFYASEDKL ENRGNYVLEK ISGQEVNEAA CDIARQVADE GDALVAGGVS QTPSYLSCKS ETEVKKVFLQ QLEVFMKKNV DFLIAEYFEH VEEAVWAVET LIASGKPVAA TMCIGPEGDL HGVPPGECAV RLVKAGASII GVNCHFDPTI SLKTVKLMKE GLEAARLKAH LMSQPLAYHT PDCNKQGFID LPEFPFGLEP RVATRWDIQK YAREAYNLGV RYIGGCCGFE PYHIRAIAEE 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.