



## Product Datasheet

<b>Product Name</b>	Betaine Homocysteine S-Methyltransferase Human Recombinant
<b>Cata No</b>	CB500471
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	BHMT, Betaine Homocysteine S-Methyltransferase 1, BHMT1.

### 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.

Betaine Homocysteine S-Methyltransferase Human Recombinant fused to His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 443 amino acids (21-236) and having a molecular mass of 49.2 kDa. The BHMT is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered clear colorless solution 1 mg/ml.

### Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

The BHMT solution contains 20mM Tris-HCl pH-7.5 and 20% glycerol.

### Stability

BHMT Recombinant Human although stable at 4°C for 30 days, should be stored desiccated below -20°C for periods greater than 30 days.

**Please avoid freeze-thaw cycles.**

### Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD  
KDRWGSHMPP VGGKKAKKGI LERLNAGEIV  
IGDGGFVFAL EKRGYVKAGP WTPEAAVEHP  
EAVRQLHREF LRAGSNVMQT FTFYASEDKL  
ENRGNYVLEK ISGQEVNEAA CDIARQVADE  
GDALVAGGVS QTPSYLSCKS ETEVKKVFLQ  
QLEVFMKKNV DFLIAEYFEH VEEAVWAVET  
LIASGKPVAA TMCIGPEGDL HGVPPGECV  
RLVKAGASII GVNCHFDPTI SLKTVKLMKE  
GLEAARLKAH LMSQPLAYHT  
PDCNKQGFIDLPEFPFPLEP RVATRWDIQK  
YAREAYNLGV RYIGGCCGFE PYHIRAIAEE  
LAPERGFLPPASEKHGSWGS GLDMHTKPWV  
RARARKEYWE NLRIASGRPY NPSMSKPDGW  
GVTKGTAELM QQKEATTEQQ LKELFEKQKF  
KSQ.