

Recombinant Human BHMT, GST-tagged

Cat. No. BHMT-10223H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BHMT protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-406a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	BHMT betaine--homocysteine S-methyltransferase [Homo sapiens]
Official Symbol	BHMT

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Synonyms	BHMT; betaine--homocysteine S-methyltransferase; betaine--homocysteine S-methyltransferase 1; betaine homocysteine methyltransferase; BHMT1;
Gene ID	635
mRNA Refseq	NM_001713
Protein Refseq	NP_001704
MIM	602888
UniProt ID	Q93088
Chromosome Location	5q13.1-q15
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	betaine-homocysteine S-methyltransferase activity; betaine-homocysteine S-methyltransferase activity; homocysteine S-methyltransferase activity; metal ion binding; methyltransferase activity; protein complex binding; transferase activity; zinc ion binding