

Recombinant Human BHMT, GST-tagged

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

SPECIFICATION

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| 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

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|------------------------|---|
| 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 |

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