# Recombinant Human S-methylmethionine--homocysteine S-methyltransferase BHMT2 (BHMT2)

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| **Product Code** | CSB-EP875658HU-B |
| **Abbreviation** | BHMT2 |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | Q9H2M3 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | MAPAGRPGAK KGILERLESG EVVIGDGSFL ITLEKRGYVK AGLWTPEAVI EHPDAVRQLH MEFLRAGSNV MQTFTFSASE DNMESKWEDV NAAACDLARE VAGKGDALVA GGICQTSIYK YQKDEARIKK LFRQQLEVFA WKNVDFLIAE YFEHVEEAVW AVEVLKESDR PVAVTMCIGP EGDMHDITPG ECAVRLVKAG ASIVGVNCRF GPDTSLKTME LMKEGLEWAG LKAHLMVQPL GFHAPDCGKE GFVDLPEYPF GLESRVATRW DIQKYAREAY NLGVRYIGGC CGFEPYHIRA IAEELAPERG FLPPASEKHG SWGSGLDMHT KPWIRARARR EYWENLLPAS GRPFCPSLSK PDF |
| **Source** | E.coli |
| **Target Names** | BHMT2 |
| **Protein Names** | Recommended name: S-methylmethionine--homocysteine S-methyltransferase BHMT2 Short name= SMM-hcy methyltransferase EC= 2.1.1.5 Alternative name(s): Betaine--homocysteine S-methyltransferase 2 |
| **Expression Region** | 1-363 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | full length protein |
| **Target Details** | Homocysteine is a sulfur-containing amino acid that plays a crucial role in methylation reactions. Transfer of the methyl group from betaine to homocysteine creates methionine, which donates the methyl group to methylate DNA, proteins, lipids, and other intracellular metabolites. This protein is one of two methyl transferases that can catalyze the transfer of the methyl group from betaine to homocysteine. Anomalies in homocysteine metabolism have been implicated in disorders ranging from vascular disease to neural tube birth |

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| | defects such as spina bifida. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |