

Homocysteine S-methyltransferase 2 (HMT-2), Recombinant Protein

Cat *RP10573*

Size 0.02 mg (*E-Coli*)/ 0.02 mg (*Yeast*)/ 0.1 mg (*E-Coli*)/ 0.1 mg (*Yeast*)/ 0.02 mg (*Baculovirus*)/ 0.02 mg (*Mammalian-Cell*)/ 0.1 mg (*Baculovirus*)/ 1 mg (*E-Coli*)/ 1 mg (*Yeast*)/ 0.1 mg (*Mammalian-Cell*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)

Species

Zea mays (Maize)

Full Product Name

Recombinant *Zea mays* Homocysteine S-methyltransferase 2 (HMT-2)

Product Gene Name

HMT-2 recombinant protein

Product Synonym Gene Name

HMT-2

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MVVTAAGSAE EAVRRWVDAA GGRLVLDGGL ATELEANGAD LNDPLWSAKC LLSSPHLIRK VHMDYLEAGA
NIIITASYQA TIQGFESKGF SKEQSENLLT KSVEIALEAR EMFLKEHLEK STPIQHPVLV AASLGSYGAY
LADGSEYSGD YGEAGTKEFL KDFHRRRLQV LAEAGPDIA FETIPNKLEA EAYVELLEEC NINIPAWFSF
NSKDGVIHVS GDSLIECTTI ADKCAKVGAV GINCTPPRFI HGLILSIRKV TDKPILIYPN SGERYDGEKK
EWVESTGVSD GDFVSYVNEW CKDGAVLIGG CCRTTPNTIR AIHRTLKSP NKQQLPAVE

Sequence Positions

1-339, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or *Yeast* or *Baculovirus* or *Mammalian Cell*

Molecular Weight

36,959 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

NP_001105012.1

NCBI GI

162464074

NCBI GenBank Nucleotide

NM_001111542.2

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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541874 Cell)

NCBI Official Full Name

homocysteine S-methyltransferase 2

NCBI Official Symbol

HMT-2

NCBI Official Synonym Symbols

GRMZM2G117240

NCBI Protein Information

homocysteine S-methyltransferase 2

UniProt Gene Name

HMT-2

UniProt Synonym Gene Names

SMM:Hcy S-methyltransferase 2

UniProt Protein Name

Homocysteine S-methyltransferase 2

UniProt Synonym Protein Names

S-methylmethionine:homocysteine methyltransferase 2; SMM:Hcy S-methyltransferase 2; ZmHMT-2

UniProt Primary Accession

Q9FUM9

UniProt Related Accession

Q9FUM9

UniProt Comments

Catalyzes methyl transfer from S-methylmethionine (SMM) to adenosyl-L-homocysteine (AdoMet). SMM degradation (by HMT-1, HMT-2, HMT-3 and HMT-4) and biosynthesis (by MMT1) constitute the SMM cycle in plants, which is probably required to achieve short term control of AdoMet level .

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