

Phosphoethanolamine N-methyltransferase 2 (NMT2), Recombinant Protein

Cat RP01001

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)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Phosphoethanolamine N-methyltransferase 2 (NMT2)

Product Gene Name

NMT2 recombinant protein

Product Synonym Gene Name

NMT2

Purity

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

Sequence

MEHSSDLTVE AMMLDSKASD LDKEERPEVL SLIPPYEGKS VLELGAGIGR FTGELAQKAG EVIALDFIES
AIQKNESVNG HYKNIKFMCA DVTSPDLKIK DGSIDLIFSN WLLMYLSDKE VELMAERMIG WVKPGGYIFF
RESCFHQSGD SKRKSNGTHY REPRFYTKVF QECQTRDASG NSFELSMVGC KCIGAYVKNK KNQNCICWIW
QKVSVDNDKD FQRFLDNVQY KSSGILRYER VFGEYVSTG GFETTKEFVA KMDLKPGQKV LDVGCIGGGG
DFYMAENFDV HVVGIDLSVN MISFALERAI GLKCSVEFEV ADCTTKTYPD NSFDVIYSRD TILHIQDKPA
LFRTFFKWLK PGGKVLITDY CRSAETPSPE FAEYIKQRGY DLHDVQAYGQ MLKDAGFDDV IAEDRTDQFV
QVLRRELEKV EKEKEEFISD FSEEDYNDIV GGWSAKLERT ASGEQKWGLF IADKK

Sequence Positions

1-475, 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

54,018 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.

Protein Family

Phosphomethylethanolamine N-methyltransferase

NCBI Accession

NP_175293.1

NCBI GI

15221909

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Phosphoethanolamine N-methyltransferase 2 (NMT2), Recombinant Protein

Cat *RP01001*

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)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI GenBank Nucleotide #
NM_103756.3

NCBI GeneID

841281

NCBI Official Full Name

S-adenosyl-L-methionine-dependent methyltransferases superfamily protein

NCBI Official Symbol

PMEAMT

NCBI Official Synonym Symbols

AtPMEAMT; phosphoethanolamine N-methyltransferase; T1N15.23; T1N15_23

NCBI Protein Information

S-adenosyl-L-methionine-dependent methyltransferases superfamily protein

NCBI Summary

Encodes a phosphoethanolamine N-methyltransferase that catalyses the last two methylation steps of the three sequential methylations of phosphoethanolamine (PEA) that are required for the synthesis of phosphocholine (PCho) in plants.

UniProt Gene Name

NMT2

UniProt Synonym Gene Names

PMEAMT; AtPMEAMT

UniProt Protein Name

Phosphomethylethanolamine N-methyltransferase

UniProt Synonym Protein Names

Phosphoethanolamine N-methyltransferase 2

UniProt Primary Accession

Q944H0

UniProt Secondary Accession

Q9LP63; Q9LP64; F4HYI6

UniProt Related Accession

Q944H0

UniProt Comments

Catalyzes N-methylation of phosphomonomethylethanolamine and phosphodimethylethanolamine, the two methylation steps required to convert phosphomonoethanolamine to phosphocholine. Unlike NMT1, NMT2 cannot utilize phosphoethanolamine as substrate in vitro.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY