

MTAP Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP20271a

Specification**MTAP Blocking Peptide (N-term) - Product Information**

Primary Accession [Q13126](#)
Other Accession [Q9CQ65](#), [Q3MHF7](#),
[NP_002442.2](#)

MTAP Blocking Peptide (N-term) - Additional Information**Gene ID** 4507**Other Names**

S-methyl-5'-thioadenosine phosphorylase
{ECO:0000255|HAMAP-Rule:MF_03155},
24228
{ECO:0000255|HAMAP-Rule:MF_03155},
5'-methylthioadenosine phosphorylase
{ECO:0000255|HAMAP-Rule:MF_03155},
MTA phosphorylase
{ECO:0000255|HAMAP-Rule:MF_03155},
MTAP
{ECO:0000255|HAMAP-Rule:MF_03155},
MTAPase
{ECO:0000255|HAMAP-Rule:MF_03155},
MTAP
{ECO:0000255|HAMAP-Rule:MF_03155},
MSAP

Target/Specificity

The synthetic peptide sequence is selected from aa 23-37 of HUMAN MTAP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic

MTAP Blocking Peptide (N-term) - Background

This gene encodes an enzyme that plays a major role in polyamine metabolism and is important for the salvage of both adenine and methionine. The encoded enzyme is deficient in many cancers because this gene and the tumor suppressor p16 gene are co-deleted. Multiple alternatively spliced transcript variants have been described for this gene, but their full-length natures remain unknown.

MTAP Blocking Peptide (N-term) - References

Newton-Bishop, J.A., et al. Cancer Epidemiol. Biomarkers Prev. 19(8):2043-2054(2010)
Yang, X.R., et al. Fam. Cancer (2010) In press :
Krasinskas, A.M., et al. Mod. Pathol. 23(4):531-538(2010)
Zhang, Q., et al. Zhonghua Liu Xing Bing Xue Za Zhi 31(1):83-86(2010)
Huang, H.Y., et al. Clin. Cancer Res. 15(22):6963-6972(2009)

procedures.

MTAP Blocking Peptide (N-term) - Protein Information

Name MTAP

{ECO:0000255|HAMAP-Rule:MF_03155}

Synonyms MSAP

Function

Catalyzes the reversible phosphorylation of S-methyl-5'- thioadenosine (MTA) to adenine and 5-methylthioribose-1-phosphate. Involved in the breakdown of MTA, a major by-product of polyamine biosynthesis. Responsible for the first step in the methionine salvage pathway after MTA has been generated from S-adenosylmethionine. Has broad substrate specificity with 6-aminopurine nucleosides as preferred substrates.

Cellular Location

Cytoplasm. Nucleus {ECO:0000255|HAMAP-Rule:MF_03155}

Tissue Location

Ubiquitously expressed.

MTAP Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)