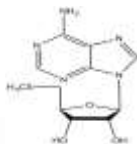


**PRODUCT: 5'-Deoxy-5'-methylthioadenosine****ALTERNATE NAME:** 5'-S-methyl-5'-thio-adenosine; Methylthioadenosine; MTA; NSC 335422; Vitamil L2**CATALOG #:** B1053-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>11</sub>H<sub>15</sub>N<sub>5</sub>O<sub>3</sub>S**MOLECULAR WEIGHT:** 297.3**CAS NUMBER:** 2457-80-9**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO (>25 mg/ml)**PURITY:** ≥98%**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** 5'-Deoxy-5'-methylthioadenosine (MTA) is an intermediate in the generation of adenine and methionine that is produced by the decarboxylation of S-adenosylmethionine. Acts as a potent agonist of adenosine receptors (K<sub>i</sub>s = 0.15, 1.13, 13.9, and 0.68 μM for A<sub>1</sub>, A<sub>2A</sub>, A<sub>2B</sub>, and A<sub>3</sub>, respectively). At higher concentrations, MTA inhibits several enzymes, including protein carboxylmethyltransferase (K<sub>i</sub> = 41 μM), S-adenosylhomocysteine hydrolase, SET methyltransferases, and spermidine and spermine synthases.**REFERENCES:** Kryukov, G.V., *et al.* (2016). *Science* **351**, 1214-1218.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

A-366 (Cat. No. 2859-1, 5)

AMI-1 (Cat. No. 1943-5, 25)

Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)

5- BIX01294 (Cat. No. 1678-5, 25)

BRD4770 (Cat. No. 9525-5, 25)

Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, 5)

EZSolution™ (+)-JQ1 (Cat. No. 2091-1)

3-Deazaneplanocin (Cat. No. 2060-250, 1000)

2'-Deoxy-5-fluorocytidine (Cat. No. 2387-50, 250)

EPZ-015666 (Cat. No. 9510-1,5)

Lomeguatrib (Cat. No. 2224-5, 25)

Nanaomycin A (Cat. No. 2790-5, 25)

RG108 (Cat. No. 1679-10, 30)

SGI-1027 (Cat. No. 2726-5, 25)

UNC0638 (Cat. No. 1933-1, 5)

UNC0642 (Cat. No. 2862-5, 25)

Zebularine (Cat. No. 2225-1, 5)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**