



LKT Laboratories, Inc.

3-Methyladenine

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Product Information

Product ID M1874

CAS No. 5142-23-4

Chemical Name

Synonym 3-MA, NSC 66389, NSC66389

Formula $C_6H_7N_5$

Formula Wt. 149.15

Melting Point

Purity $\geq 98\%$

Solubility Water 10 mg/mL warmed
(67.04 mM)

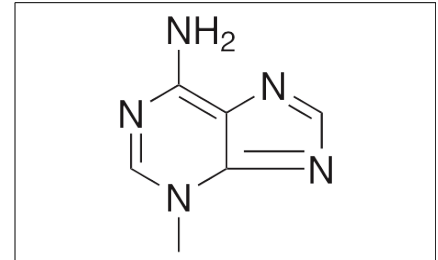
Ethanol 4 mg/mL (26.81
mM)

DMSO 2 mg/mL warmed

Store Temp Ambient

Ship Temp Ambient

Description 3-Methyl adenine is an autophagy inhibitor that also inhibits DNA polymerase activity and DNA synthesis if incorporated into DNA. Additionally, 3-methyl adenine exhibits antioxidative benefit, decreasing levels of lactate dehydrogenase and ROS/RNS in hydroquinone- and rapamycin-treated cells.



Bulk quantities available upon request

Product ID	Size
M1874	5 mg
M1874	25 mg
M1874	100 mg
M1874	500 mg

References Ramírez C, Pham K, Franco MF, et al. Hydroquinone induces oxidative and mitochondrial damage to human retinal Müller cells (MIO-M1). *Neurotoxicology*. 2013 Dec;39:102-8. PMID: 23994029.

Kumar S, Guru SK, Pathania AS, et al. Autophagy triggered by magnolol derivative negatively regulates angiogenesis. *Cell Death Dis*. 2013 Oct 31;4:e889. PMID: 24176847.

Johnson RE, Yu SL, Prakash S, et al. A role for yeast and human translesion synthesis DNA polymerases in promoting replication through 3-methyl adenine. *Mol Cell Biol*. 2007 Oct;27(20):7198-205. PMID: 17698580.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.