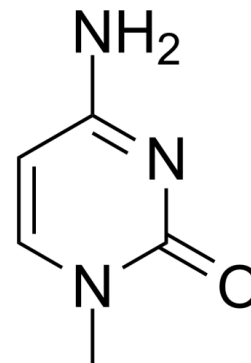


Data Sheet

Product Name:	1-Methylcytosine
Cat. No.:	CS-W006395
CAS No.:	1122-47-0
Molecular Formula:	C ₅ H ₇ N ₃ O
Molecular Weight:	125.13
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

1-Methylcytosine is a methylated form of the DNA base cytosine and used as a nucleobase of hachimoji DNA, in which it pairs with Isoguanine^{[1][2]}.

References:

[1]. Kistenmacher, T. J.; Rossi, M. (1977-12-15). "1-Methylcytosine: a refinement". *Acta Crystallographica* (1977) Section B. 33 (12): 3962–3965.

[2]. Hoshika S, et al. Hachimoji DNA and RNA: A genetic system with eight building blocks. *Science*. 2019 Feb 22;363(6429):884-887.

CAIndexNames:

2(1H)-Pyrimidinone, 4-amino-1-methyl-

SMILES:

NC(C=CN1C)=NC1=O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA