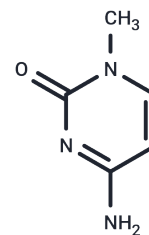


## 1-Methylcytosine

## Chemical Properties

CAS No. :	1122-47-0
Formula:	C <sub>5</sub> H <sub>7</sub> N <sub>3</sub> O
Molecular Weight:	125.13
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	1-Methylcytosine (4-amino-1-methylpyrimidin-2(1H)-one) is a methylated form of the cytosine and can be used as the nucleobase of hachimoji DNA paired with isoguanine.
Targets(IC50)	Nucleoside Antimetabolite/Analog

## Solubility Information

Solubility	DMSO: 1.26 mg/mL (10.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.9917 mL	39.9584 mL	79.9169 mL
5 mM	1.5983 mL	7.9917 mL	15.9834 mL
10 mM	0.7992 mL	3.9958 mL	7.9917 mL
50 mM	0.1598 mL	0.7992 mL	1.5983 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Kistenmacher T. J., Rossi M. 1-Methylcytosine: a refinement. Acta Crystallographica (1977) Section B. 33 (12): 3962-3965.
- Hoshika S, et al. Hachimoji DNA and RNA: A genetic system with eight building blocks. Science. 2019 Feb 22;363 (6429):884-887.

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