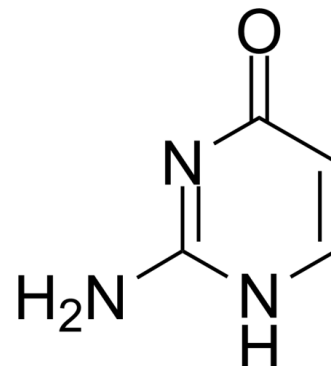


## Data Sheet

<b>Product Name:</b>	Isocytosine
<b>Cat. No.:</b>	CS-W002272
<b>CAS No.:</b>	108-53-2
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>5</sub> N <sub>3</sub> O
<b>Molecular Weight:</b>	111.10
<b>Target:</b>	Nucleoside Antimetabolite/Analog
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Solubility:</b>	DMSO : 33.33 mg/mL (300.00 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

Isocytosine is a non-natural nucleobase and an isomer of cytosine. It is used in combination with Isoguanine in studies of unnatural nucleic acid analogues of the normal base pairs in DNA and used as a nucleobase of hachimoji RNA<sup>[1][2]</sup>.

### References:

[1]. "Isocytosine". Molecule of the Week. American Chemical Society. Retrieved November 1, 2012.

[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:

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

### SMILES:

O=C1N=C(N)NC=C1

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

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