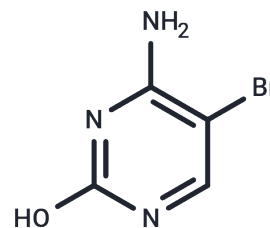


## 5-Bromocytosine

## Chemical Properties

CAS No. :	2240-25-7
Formula:	C <sub>4</sub> H <sub>4</sub> BrN <sub>3</sub> O
Molecular Weight:	190
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	5-Bromocytosine can be used in the synthesis of cross-link products under anaerobic and aerobic conditions.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 2.5 mg/mL (13.16 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.26 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2632 mL	26.3158 mL	52.6316 mL
5 mM	1.0526 mL	5.2632 mL	10.5263 mL
10 mM	0.5263 mL	2.6316 mL	5.2632 mL
50 mM	0.1053 mL	0.5263 mL	1.0526 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

Hong, Wang H . Formation of intrastrand cross-link products between cytosine and adenine from UV irradiation of d((Br)CA) and duplex DNA containing a 5-bromocytosine[[]]. Journal of the American Chemical Society, 2005, 127 (40):13969-77.

Kumar A , Sevilla M D . Cytosine Iminyl Radical (cytN?) Formation via Electron Induced Debromination of 5-Bromocytosine: A DFT and Gaussian 4 Study[[]]. The Journal of Physical Chemistry A, 2017:acs.jpca.7b04034.

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