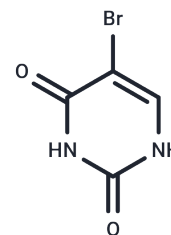


5-Bromouracil

Chemical Properties

CAS No. :	51-20-7
Formula:	C ₄ H ₃ BrN ₂ O ₂
Molecular Weight:	190.98
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	5-Bromouracil disrupts nucleosome positioning by inducing A-form-like DNA.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 27.5 mg/mL (143.99 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: 2 mg/mL (10.47 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	5.2362 mL	26.1808 mL	52.3615 mL
5 mM	1.0472 mL	5.2362 mL	10.4723 mL
10 mM	0.5236 mL	2.6181 mL	5.2362 mL
50 mM	0.1047 mL	0.5236 mL	1.0472 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

Miki K , Shimizu M , Fujii M , et al. 5-Bromouracil disrupts nucleosome positioning by inducing A-form-like DNA conformation in yeast cells[J]. biochemical & biophysical research communications, 2008, 368(3):0-669.

Danilov V I , Van Mourik T , Kurita N , et al. On the Mechanism of the Mutagenic Action of 5-Bromouracil: A DFT Study of Uracil and 5-Bromouracil in a Water Cluster[J]. JOURNAL OF PHYSICAL CHEMISTRY A, 2009, 113(11):2233-2235.

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