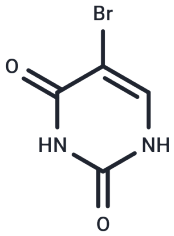
Data Sheet (Cat.No.T8060)

TargetMol

5-Bromouracil

Chemical Properties



CAS No. : 51-20-7

Formula: C4H3BrN2O2

Molecular Weight: 190.98

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481