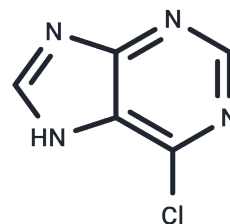


6-Chloropurine

Chemical Properties

CAS No. :	87-42-3
Formula:	C ₅ H ₃ ClN ₄
Molecular Weight:	154.56
Storage:	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	6-Chloropurine (6-Chloro-9H-purine) is a building block in chemical synthesis, with Antitumor activities.
Targets(IC50)	Others
In vivo	6-Chloropurine (CP) has antitumor activity against animal and human neoplasms[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (291.15 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 (12.94 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	6.470 mL	32.3499 mL	64.6998 mL
5 mM	1.294 mL	6.470 mL	12.940 mL
10 mM	0.647 mL	3.235 mL	6.470 mL
50 mM	0.1294 mL	0.647 mL	1.294 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

Hwang I Y , Elfarra A A . Detection and mechanisms of formation of S-(6- purinyl)glutathione and 6- mercaptopurine in rats given 6- chloropurine[J]. Journal of Pharmacology and Experimental Therapeutics, 1993, 264(1):41-46.

Renaud, Zelli, Wa?l, et al. 6-Chloropurine Ribonucleosides from Chloropyrimidines: One-Pot Synthesis.[J]. Current protocols in nucleic acid chemistry, 2018.

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