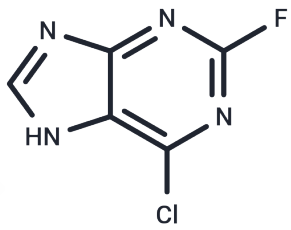
Data Sheet (Cat.No.T37065)

TargetMol

6-Chloro-2-fluoropurine

Chemical Properties



CAS No. : 1651-29-2

Formula: C5H2ClFN4

Molecular Weight: 172.55

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	6-Chloro-2-fluoropurine is a heterocyclic building block.1,2It has been used in the synthesis of purine nucleosides that inhibit cyclin-dependent kinases (CDKs)in vitro.16-Chloro-2-fluoropurine has also been used in the synthesis of purine nucleosides that are active against HIV-1 and hepatitis B virus (HBV)in vitro.2
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 30 mg/mL (173.86 mM),Sonication is recommended. DMSO: 30 mg/mL (173.86 mM),Sonication is recommended. DMF: 30 mg/mL (173.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7954 mL	28.9771 mL	57.9542 mL
5 mM	1.1591 mL	5.7954 mL	11.5908 mL
10 mM	0.5795 mL	2.8977 mL	5.7954 mL
50 mM	0.1159 mL	0.5795 mL	1.1591 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

Wilson, S.C., Atrash, B., Barlow, C., et al.Design, synthesis and biological evaluation of 6-pyridylmethylaminopurines as CDK inhibitorsBioorg. Med. Chem.19(22)6949-6965(2011)
Lee, K., Choi, Y., Gullen, E., et al.Synthesis and anti-HIV and anti-HBV activities of 2'-fluoro-2',3'-unsaturated L-nucleosidesJ. Med. Chem.42(7)1320-1328(1999)

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