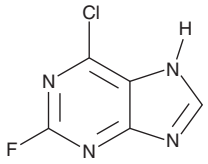
PRODUCT INFORMATION

6-Chloro-2-fluoropurine

Item No. 30481

CAS Registry No.: 1651-29-2
Synonym: NSC 37363
MF: $C_5H_2ClFN_4$
FW: 172.5
Purity: ≥98%
UV/Vis.: λ_{max}: 270 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

6-Chloro-2-fluoropurine is supplied as a crystalline solid. A stock solution may be made by dissolving the 6-chloro-2-fluoropurine in the solvent of choice, which should be purged with an inert gas. 6-Chloro-2-fluoropurine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 6-chloro-2-fluoropurine in these solvents is approximately 30 mg/ml.

Description

6-Chloro-2-fluoropurine is a heterocyclic building block.[1,2] It has been used in the synthesis of purine nucleosides that inhibit cyclin-dependent kinases (CDKs) *in vitro*.[1] 6-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]

References

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

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