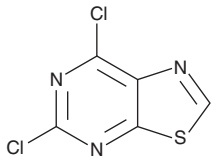
PRODUCT INFORMATION

5,7-Dichlorothiazolo[5,4-d]pyrimidine

Item No. 36489

CAS Registry No.: 13479-88-4
Formal Name: 5,7-dichloro-thiazolo[5,4-d]pyrimidine
MF: $C_5HCl_2N_3S$
FW: 206.1
Purity: ≥95%
UV/Vis.: λ_{max}: 222 nm
Supplied as: A 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

5,7-Dichlorothiazolo[5,4-d]pyrimidine is supplied as a solid. A stock solution may be made by dissolving the 5,7-dichlorothiazolo[5,4-d]pyrimidine in the solvent of choice, which should be purged with an inert gas. 5,7-Dichlorothiazolo[5,4-d]pyrimidine is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of 5,7-dichlorothiazolo[5,4-d]pyrimidine in these solvents is approximately 1 and 2 mg/ml, respectively.

Description

5,7-Dichlorothiazolo[5,4-d]pyrimidine is a building block.[1-4] It has been used in the synthesis of a variety of compounds, including spleen tyrosine kinase (Syk), mammalian target of rapamycin (mTOR), and PI3Kδ inhibitors, as well as HIV-1 non-nucleoside reverse transcriptase inhibitors (NNRTIs) with antiviral activity.

References

1. Lucas, M.C., Goldstein, D.M., Hermann, J.C., *et al.* Rational design of highly selective spleen tyrosine kinase inhibitors. *J. Med. Chem.* **55(23)**, 10414-10423 (2012).
2. Bonazzi, S., Goold, C.P., Gray, A., *et al.* Discovery of a brain-penetrant ATP-competitive inhibitor of the mechanistic target of rapamycin (mTOR) for CNS disorders. *J. Med. Chem.* **63(3)**, 1068-1083 (2020).
3. Murray, J.M., Sweeney, Z.K., Chan, B.K., *et al.* Potent and highly selective benzimidazole inhibitors of PI3-kinase delta. *J. Med. Chem.* **55(17)**, 7686-7695 (2012).
4. Kang, D., Zhao, T., Wang, Z., *et al.* Discovery of piperidine-substituted thiazolo[5,4-*d*]pyrimidine derivatives as potent and orally bioavailable HIV-1 non-nucleoside reverse transcriptase inhibitors. *Commun. Chem.* **2**, 74 (2019).

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