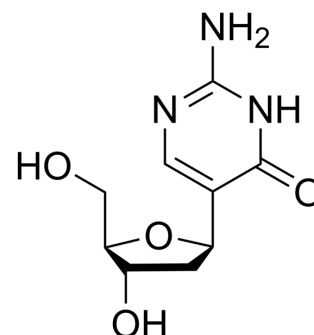


2'-Deoxypseudoisocytidine

Cat. No.:	HY-101968
CAS No.:	65358-18-1
Molecular Formula:	C ₉ H ₁₃ N ₃ O ₄
Molecular Weight:	227.22
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 106.5 mg/mL (468.71 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		4.4010 mL	22.0051 mL	44.0102 mL
	5 mM		0.8802 mL	4.4010 mL	8.8020 mL
	10 mM		0.4401 mL	2.2005 mL	4.4010 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2'-Deoxypseudoisocytidine is a nucleoside analogue.

In Vitro

2'-Deoxypseudoisocytidine is a modified base which can be used as a allele-specific blocker probe to discriminate sequence variation between different alleles and quantitate rare (e.g., mutant) allelic variants, such as SNPs, or nucleotide (NT) insertions or deletions, in samples comprising abundant allelic variants with high specificity and selectivity^[1]. 2'-Deoxypseudoisocytidine (2'dPIC) and its analogues are also used as novel base-pairing agents in oligonucleotides to investigate DNA and RNA structures and functions^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Caifu Chen, et al. Methods, Compositions, and Kits for Detecting Allelic Variants. US 20100285478 A1.
- [2]. Serpi M, et al. Synthetic Approaches for the Preparation of Phosphoramidate Prodrugs of 2'-Deoxypseudoisocytidine. ChemistryOpen. 2017 May 5;6(3):424-436.

Caution: Product has not been fully validated for medical applications. For research use only.

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