
Product Data Sheet

Product Name: 2'-Deoxypseudoisocytidine

Cat. No.: GC33430

Chemical Properties

Cas. No. 65358-18-1

SMILES O=C1C([C@@H]2O[C@H](CO)[C@@H](O)C2)=CN=C(N)N1

Formula $C_9H_{13}N_3O_4$ M.Wt 227.22

Solubility DMSO : ≥ 106.5 mg/mL (468.71 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

2'-Deoxypseudoisocytidine is a nucleoside analogue.

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'd-PIC) and its analogues are also used as novel base-pairing agents in oligonucleotides to investigate DNA and RNA structures and functions[2].

[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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