

Pseudothymidine

Catalog No: tcsc7718



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

65358-15-8

Formula:

$C_{10}H_{14}N_2O_5$

Pathway:

Cell Cycle/DNA Damage

Target:

Nucleoside Antimetabolite/Analog

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 61.17 mg/mL (252.53 mM)

Alternative Names:

5-Methyl-2'-Deoxypseudouridin

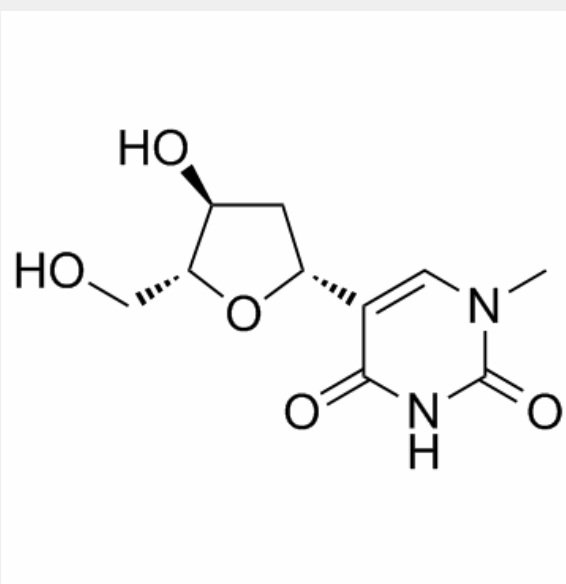
Observed Molecular Weight:

242.23

Product Description

Pseudothymidine is a C-nucleoside analog of thymidine.

In Vitro: Pseudothymidine is a C-nucleoside analog of thymidine^[1]. The calculated $\Delta\Delta G_{50}^{\circ}/\text{mod}$ is -0.5 kcal/mol, with a $\Delta T_m/\text{mod}$ of 0.82°C. For the duplexes containing nine dA-T/ψT pairs, the $\Delta T_m/\text{mod}$ is -0.9°C and a $\Delta\Delta G_{50}^{\circ}/\text{mod}$ is +1.1 kcal/mol. The modification of the duplex containing 12 consecutive dA-T/ψT base pairs produces a $\Delta T_m/\text{mod}$ of -0.9°C and a $\Delta\Delta G_{50}^{\circ}/\text{mod}$ of +1.2 kcal/mol^[2].



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