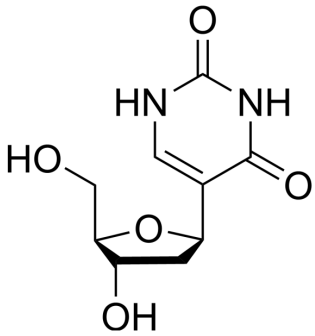
Deoxypseudouridine

Cat. No.:	HY-101970
CAS No.:	39967-60-7
Molecular Formula:	$C_9H_{12}N_2O_5$
Molecular Weight:	228.2
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 37 mg/mL (162.14 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.3821 mL	21.9106 mL	43.8212 mL
	5 mM	0.8764 mL	4.3821 mL	8.7642 mL
	10 mM	0.4382 mL	2.1911 mL	4.3821 mL

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

BIOLOGICAL ACTIVITY

Description

Deoxypseudouridine is a nucleoside analog.

In Vitro

Deoxypseudouridine is a nucleoside analog. Ethidium bromide staining of the gel demonstrates that the digestion of carrier DNA in both control and analog DNA samples (including Deoxypseudouridine) occur to the same extent; this indicates that the restriction enzyme is as active in the presence of the modified DNA substrate (including Deoxypseudouridine) as it is in the presence of unmodified (control) DNA. Enzymes that do not contain an AT base pair in their recognition sequence, restrict DNAs substituted with either deoxypseudouridine or deoxytubercidin as efficiently as control[1].

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

REFERENCES

[1]. Bodnar JW, et al. Effect of nucleotide analogs on the cleavage of DNA by the restriction enzymes AluI, DdeI, HinfI, RsaI, and TaqI. J Biol Chem. 1983 Dec 25;258(24):15206-13.

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

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