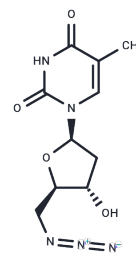


5'-Azido-5'-deoxythymidine

Chemical Properties

CAS No. :	19316-85-9
Formula:	C10H13N5O4
Molecular Weight:	267.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	5'-Azido-5'-deoxythymidine is a nucleoside analog with potential anti-tuberculosis activity as an inhibitor of Mycobacterium tuberculosis monophosphate kinase (TMPKmt), an enzyme essential for DNA replication in Mycobacterium tuberculosis. 5'-Azido-5'-deoxythymidine contains an azide group in its molecular structure, which enhances its ability to inhibit reverse transcriptase, and is commonly used in the study of nucleoside metabolic pathways and related disease mechanisms.
Targets(IC50)	Nucleoside Antimetabolite/Analog

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.742 mL	18.7098 mL	37.4195 mL
5 mM	0.7484 mL	3.742 mL	7.4839 mL
10 mM	0.3742 mL	1.871 mL	3.742 mL
50 mM	0.0748 mL	0.3742 mL	0.7484 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hiebl J, et al. Synthesis and antiretrovirus properties of 5'-isocyano-5'-deoxythymidine, 5'-isocyano-2',5'-dideoxyuridine, 3'-azido-5'-isocyano-3',5'-dideoxythymidine, and 3'-azido-5'-isocyano-2',3',5'-trideoxyuridine. J Med Chem. 1991 Apr;34(4):1426-30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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