Data Sheet (Cat.No.T19906)

TargetMol

5'-O-Tritylthymidine

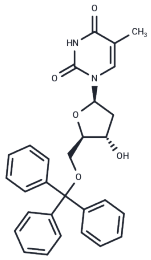
Chemical Properties

CAS No. : 7791-71-1

Formula: C29H28N2O5

Molecular Weight: 484.54

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'-O-Tritylthymidine is a blocker of the formation of the FAK/Mdm-2 complex. 5'-O-Tritylthymidine activates p53 and caspase-8. It also leads to increase detachment and apoptosis in breast and colon cancers.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0638 mL	10.3191 mL	20.6381 mL
5 mM	0.4128 mL	2.0638 mL	4.1276 mL
10 mM	0.2064 mL	1.0319 mL	2.0638 mL
50 mM	0.0413 mL	0.2064 mL	0.4128 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

Golubovskaya VM, Palma NL, Zheng M, Ho B, Magis A, Ostrov D, Cance WG. A small-molecule inhibitor, 5'-O-tritylthymidine, targets FAK and Mdm-2 interaction, and blocks breast and colon tumorigenesis in vivo. Anticancer Agents Med Chem. 2013 May;13(4):532-45. PubMed PMID: 22292771; PubMed Central PMCID: PMC3625481.
Liekens S, Bronckaers A, Hernández AI, Priego EM, Casanova E, Camarasa MJ, Pérez-Pérez MJ, Balzarini J. 5'-O-tritylated nucleoside derivatives: inhibition of thymidine phosphorylase and angiogenesis. Mol Pharmacol. 2006 Aug;70(2):501-9. Epub 2006 May 4. PubMed PMID: 16675660.
Hernández AI, Balzarini J, Karlsson A, Camarasa MJ, Pérez-Pérez MJ. Acyclic nucleoside analogues as novel inhibitors of human mitochondrial thymidine kinase. J Med Chem. 2002 Sep 12;45(19):4254-63. PubMed PMID: 12213066.
Capron MA, McEldoon WL, Baenziger NC, Wiemer DF. Structure of a modified nucleoside, 3' alpha-diethylphosphono-3' beta-hydroxy-5'-O-tritylthymidine. Acta Crystallogr C. 1994 Feb 15;50 (Pt 2):291-4. PubMed PMID: 8148096.

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