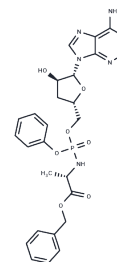


NUC-7738

Chemical Properties

CAS No. :	2348493-39-8
Formula:	C ₂₆ H ₂₉ N ₆ O ₇ P
Molecular Weight:	568.52
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	NUC-7738 is a 5'-aryloxyphosphoamidate prodrug of 3'-dA that reduces β -catenin nuclear expression in AML cells, modulates β -catenin signaling, and can be used in cancer research.
Targets(IC50)	Others
In vitro	NUC-7738 has anticancer activity and cytotoxic activity against leukocyte lineage with LC ₅₀ <30 μ M. 1 μ M NUC-7738 has good stability in human hepatocytes with a t _{1/2} value of 48.1 min. NUC-7738 is more stable in human plasma compared with the parent nucleoside, and the plasma concentration remained unchanged for 4 hours. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (140.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (5.8 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.759 mL	8.7948 mL	17.5895 mL
5 mM	0.3518 mL	1.759 mL	3.5179 mL
10 mM	0.1759 mL	0.8795 mL	1.759 mL
50 mM	0.0352 mL	0.1759 mL	0.3518 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

Serpi M, et al. Synthesis and Characterization of NUC-7738, an Aryloxy Phosphoramidate of 3'-Deoxyadenosine, as a Potential Anticancer Agent. *J Med Chem.* 2022 Dec 8;65(23):15789-15804.

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