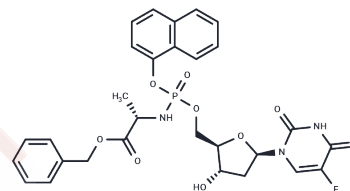


Fosifloxuridine nafalbenamide

Chemical Properties

CAS No. :	1332837-31-6
Formula:	C ₂₉ H ₂₉ FN ₃ O ₉ P
Molecular Weight:	613.53
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	Fosifloxuridine nafalbenamide (NUC 3373), a pyrimidine nucleotide analogue, is a Thymidylate synthase inhibitor. NUC-3373 has anticancer activity. NUC-3373 is a ProTide transformation of 5-FU that generates much higher concentrations of FUDR-MP in patients' cells.
Targets(IC50)	DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 100 mg/mL (162.99 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: 4 mg/mL (6.52 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	1.6299 mL	8.1496 mL	16.2991 mL
5 mM	0.326 mL	1.6299 mL	3.2598 mL
10 mM	0.163 mL	0.815 mL	1.6299 mL
50 mM	0.0326 mL	0.163 mL	0.326 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

Fiona G. McKissock, et al. Abstract 1848: NUC-3373 induces ER stress and the release of damage associated molecular patterns in colorectal cancer cells. Cancer Res August 15 2020 (80) (16 Supplement) 1848.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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