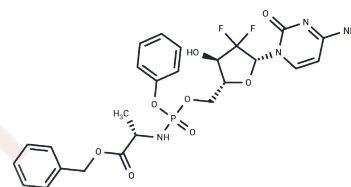


Acelarin

Chemical Properties

CAS No. :	840506-29-8
Formula:	C ₂₅ H ₂₇ F ₂ N ₄ O ₈ P
Molecular Weight:	580.47
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	Acelarin (NUC-1031) (NUC-1031) is a ProTide enhancement and transformation of the nucleoside analog, gemcitabine.
Targets(IC50)	DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 55 mg/mL (94.75 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: 2 mg/mL (3.45 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	1.7227 mL	8.6137 mL	17.2274 mL
5 mM	0.3445 mL	1.7227 mL	3.4455 mL
10 mM	0.1723 mL	0.8614 mL	1.7227 mL
50 mM	0.0345 mL	0.1723 mL	0.3445 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

Slusarczyk M, et al. Application of ProTide technology to gemcitabine: a successful approach to overcome the key cancer resistance mechanisms leads to a new agent (NUC-1031) in Clinical development. J Med Chem. 2014 Feb 27;57(4):1531-42.

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