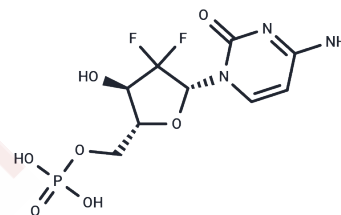


## Gemcitabine monophosphate

## Chemical Properties

CAS No. :	116371-67-6
Formula:	C <sub>9</sub> H <sub>12</sub> F <sub>2</sub> N <sub>3</sub> O <sub>7</sub> P
Molecular Weight:	343.18
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	R306465 is a novel HDAC inhibitor with broad-spectrum antitumor activity against solid (IC <sub>50</sub> : 30 to 300 nM) and hematological malignancies. R306465 was found to be a potent inhibitor of HDAC1 and -8 (class I) in vitro.
Targets(IC <sub>50</sub> )	Apoptosis,Others

## Solubility Information

Solubility	DMSO: Soluble, H <sub>2</sub> O: Insoluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9139 mL	14.5696 mL	29.1392 mL
5 mM	0.5828 mL	2.9139 mL	5.8278 mL
10 mM	0.2914 mL	1.457 mL	2.9139 mL
50 mM	0.0583 mL	0.2914 mL	0.5828 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

Miao L, Guo S, Zhang J, Kim WY, Huang L. Nanoparticles with Precise Ratiometric Co-Loading and Co-Delivery of Gemcitabine Monophosphate and Cisplatin for Treatment of Bladder Cancer. *Adv Funct Mater.* 2014 Nov 12;24(42):6601-6611. PubMed PMID: 25395922; PubMed Central PMCID: PMC4225819.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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