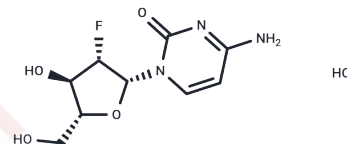


## 2'-Deoxy-2'-fluoro-β-D-arabinocytidine hydrochloride

### Chemical Properties

CAS No. : 25183-22-6  
 Formula: C<sub>9</sub>H<sub>13</sub>ClFN<sub>3</sub>O<sub>4</sub>  
 Molecular Weight: 281.67  
 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	2'-Deoxy-2'-fluoro-β-D-arabinocytidine hydrochloride is a cytosine nucleoside analog with inhibitory effects on DNA methyltransferase, with potential antimetabolic and antitumor activity.
Targets(IC50)	Nucleoside Antimetabolite/Analog, DNA Methyltransferase

### Solubility Information

Solubility	DMSO: 50 mg/mL (177.51 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5503 mL	17.7513 mL	35.5025 mL
5 mM	0.7101 mL	3.5503 mL	7.1005 mL
10 mM	0.355 mL	1.7751 mL	3.5503 mL
50 mM	0.071 mL	0.355 mL	0.7101 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

Gowher H, et al. Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. *Cancer Biol Ther.* 2004;3(11):1062-1068.

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