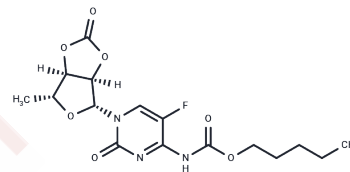


## Capecitabine-2',3'-cyclic Carbonate

## Chemical Properties

CAS No. :	921769-65-5
Formula:	C <sub>16</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>7</sub>
Molecular Weight:	385.34
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Capecitabine-2',3'-cyclic Carbonate is a antiproliferative agent.
Targets(IC50)	Others
In vitro	Capecitabine-2',3'-cyclic Carbonate inhibits the proliferation of tumor cells with IC50 of 0.08mg/mL, 0.08mg/mL, 0.14mg/mL and 0.18mg/mL for HeLa, MCF-7, PZ-HPV-7 and NCI-69, respectively[1].

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (71.37 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	2.5951 mL	12.9756 mL	25.9511 mL
5 mM	0.519 mL	2.5951 mL	5.1902 mL
10 mM	0.2595 mL	1.2976 mL	2.5951 mL
50 mM	0.0519 mL	0.2595 mL	0.519 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

Jhansi Rani V, et al. Synthesis and biological activity evaluation of cytidine-5'-deoxy-5-fluoro-N-[(alkoxy/aryloxy)] carbonyl-cyclic 2',3'-carbonates. Eur J Med Chem. 2012 Aug;54:690-6.

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