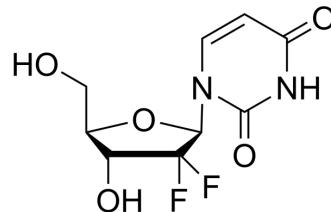


## 2',2'-Difluorodeoxyuridine

Cat. No.:	HY-138253		
CAS No.:	114248-23-6		
Molecular Formula:	C <sub>9</sub> H <sub>10</sub> F <sub>2</sub> N <sub>2</sub> O <sub>5</sub>		
Molecular Weight:	264.18		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (473.16 mM; Need ultrasonic)  
 H<sub>2</sub>O : 100 mg/mL (378.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7853 mL	18.9265 mL	37.8530 mL
	5 mM	0.7571 mL	3.7853 mL	7.5706 mL
	10 mM	0.3785 mL	1.8926 mL	3.7853 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

2',2'-Difluorodeoxyuridine (dFdU) is the main metabolite of Gemcitabine (HY-17026). 2',2'-Difluorodeoxyuridine causes a concentration- and schedule- dependent radiosensitising effect in vitro<sup>[1]</sup>.

### REFERENCES

[1]. Pauwels B, et al. The radiosensitising effect of difluorodeoxyuridine, a metabolite of gemcitabine, in vitro. *Cancer Chemother Pharmacol.* 2006 Aug;58(2):219-28.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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