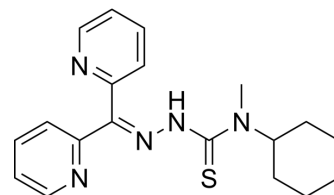


## DpC

Cat. No.:	HY-114243		
CAS No.:	1382469-39-7		
Molecular Formula:	C <sub>19</sub> H <sub>23</sub> N <sub>5</sub> S		
Molecular Weight:	353.48		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (176.81 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.8290 mL	14.1451 mL	28.2901 mL
5 mM	0.5658 mL	2.8290 mL	5.6580 mL
10 mM	0.2829 mL	1.4145 mL	2.8290 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (5.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.88 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

DpC is an anti-tumor agent. DpC inhibits cancer cell proliferation (IC<sub>50</sub>: 0.007-0.096 μM). DpC synergizes with multiple anti-cancer therapeutics<sup>[1]</sup>.

### REFERENCES

- [1]. Dharmasivam M, et al. The thiosemicarbazone, DpC, broadly synergizes with multiple anti-cancer therapeutics and demonstrates temperature- and energy-dependent uptake by tumor cells. *Biochim Biophys Acta Gen Subj.* 2022 Aug;1866(8):130152.

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

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