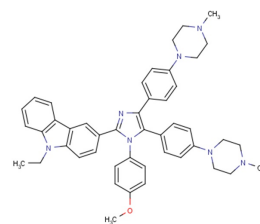


## IZCZ-3

## Chemical Properties

CAS No.:	2223019-53-0
Formula:	C <sub>46</sub> H <sub>49</sub> N <sub>7</sub> O
Molecular Weight:	715.93
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	IZCZ-3, antitumor activity. is a potent c-MYC transcription inhibitor.
Targets(IC <sub>50</sub> )	c-MYC transcription: None
In vitro	IZCZ-3 induces only weak growth inhibition in the BJ fibroblasts (IC <sub>50</sub> =15.9 $\mu$ M) and mouse mesangial cells (IC <sub>50</sub> =15.6 $\mu$ M), suggesting that IZCZ-3 is more effective against cancer cells than against c-MYC-independent normal cells. IZCZ-3 (0-5 $\mu$ M; 12 hours) induces an apparent accumulation of cells in the G <sub>0</sub> /G <sub>1</sub> phase in SiHa cells in a dose-dependent manner. IZCZ-3 (2.1 $\mu$ M-15.9 $\mu$ M; 24 hours) significantly inhibits SiHa, HeLa, Huh7, and A375 cancer cell proliferation (IC <sub>50</sub> s of 3.3, 2.1, 4.1, and 4.2 $\mu$ M, respectively).
In vivo	IZCZ-3 inhibits tumor growth in BALB/c nude mice with SiHa human cervical squamous cancer xenograft.

## Solubility Information

Solubility	DMSO: 5 mg/mL (6.98 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.397 mL	6.984 mL	13.968 mL
5 mM	0.279 mL	1.397 mL	2.794 mL
10 mM	0.14 mL	0.698 mL	1.397 mL
50 mM	0.028 mL	0.14 mL	0.279 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Hu MH, et al. Discovery of a New Four-Leaf Clover-Like Ligand as a Potent c-MYC Transcription Inhibitor Specifically Targeting the Promoter G-Quadruplex. J Med Chem. 2018 Mar 22;61(6):2447-2459.

Inhibitors · Natural Compounds · Compound Libraries

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