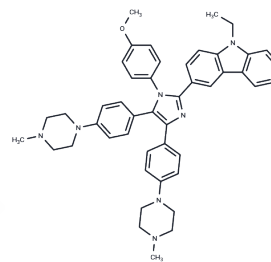


## IZCZ-3

## 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
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	IZCZ-3, antitumor activity. is a potent c-MYC transcription inhibitor.
Targets(IC50)	Others, Autophagy, c-Myc
In vitro	IZCZ-3 induces only weak growth inhibition in the BJ fibroblasts (IC <sub>50</sub> =15.9 μM) and mouse mesangial cells (IC <sub>50</sub> =15.6 μM), suggesting that IZCZ-3 is more effective against cancer cells than against c-MYC-independent normal cells. IZCZ-3 (0-5 μM; 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 μM-15.9 μM; 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 μM, 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), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3968 mL	6.9839 mL	13.9678 mL
5 mM	0.2794 mL	1.3968 mL	2.7936 mL
10 mM	0.1397 mL	0.6984 mL	1.3968 mL
50 mM	0.0279 mL	0.1397 mL	0.2794 mL

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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

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.

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