IZCZ-3

Cat. No.:	HY-111411		
CAS No.:	2223019-53	-0	
Molecular Formula:	C ₄₆ H ₄₉ N ₇ O		
Molecular Weight:	715.93		
Target:	c-Myc; Auto	phagy	
Pathway:	Apoptosis;	Autopha	gy
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.3968 mL	6.9839 mL	13.9678 mL
	5 mM	0.2794 mL	1.3968 mL	2.7936 mL	
	10 mM				

BIOLOGICAL ACTIV	νιτγ		
Description	IZCZ-3 is a potent c-MYC transcription inhibitor with antitumor activity ^[1] .		
IC ₅₀ & Target	c-MYC transcription ^[1]		
In Vitro	 IZCZ-3 (2.1 μM-15.9 μM; 24 hours) significantly inhibits SiHa, HeLa, Huh7, and A33 4.1, and 4.2 μM, respectively). IZCZ-3 induces only weak growth inhibition in the mesangial cells (IC₅₀=15.6 μM), suggesting that IZCZ-3 is more effective against conormal cells^[1]. IZCZ-3 (0-5 μM; 12 hours) induces an apparent accumulation of cells in the G0/G2 manner^[1]. MCE has not independently confirmed the accuracy of these methods. They are found cell Proliferation Assay^[1]. 	BJ fibroblasts (IC ₅₀ =15.9 μM) and mouse cancer cells than against c-MYC-independent 1 phase in SiHa cells in a dose-dependent for reference only.	
	Cell Line: SiHa, HeLa, Huh7, and A375 cancer cells (with over normal BJ fibroblasts and primary cultured mous		

Product Data Sheet

		expression of c-MYC protein).
	Concentration:	2.1 μΜ-15.9 μΜ
	Incubation Time:	24 hours
	Result:	$IC_{50}s$ of 3.3, 2.104.1, and 4.2 μM for SiHa, HeLa, Huh7, and A375 cancer cells; $IC_{50}s$ of 15.9 M and 15.6 μM for BJ fibroblasts and mouse mesangial cells.
	Cell Cycle Analysis ^[1]	
	Cell Line:	SiHa cells
	Concentration:	0, 1.25, 2.5, and 5 μM
	Incubation Time:	12 hours
	Result:	Induced an apparent accumulation of cells in the G0/G1 phase (increasing from 61% to 70%) in a dose-dependent manner.
	SiHa human cervical squame	intraperitoneally; every other day for 24 days) inhibits tumor growth in BALB/c nude mice wi ous cancer xenograft ^[1] . confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	BALB/c nude mice (5 weeks old) bearing SiHa human cervical squamous cancer xenograf model $^{[1]}$
	Dosage:	20, 10, and 5 mg/kg
	Administration:	Treated intraperitoneally; every other day for 24 days
	Result:	Treatment with 20, 10, and 5 mg/kg resulted in a significant reduction in tumor weight with tumor growth inhibition (TGI) of 69%, 64%, and 57%, respectively. Displayed time-dependent inhibition of tumor growth.

CUSTOMER VALIDATION

- Oncogene. 2022 Oct 21.
- Cell Biol Toxicol. 2021 Sep 12.

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REFERENCES

In

[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.

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

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