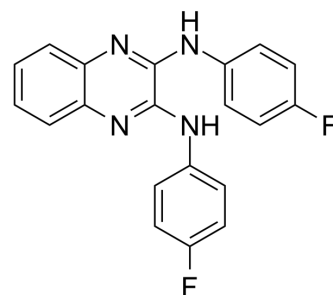


LQZ-7I

Cat. No.:	HY-136538		
CAS No.:	195822-23-2		
Molecular Formula:	C ₂₀ H ₁₄ F ₂ N ₄		
Molecular Weight:	348.35		
Target:	Survivin		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (358.83 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.8707 mL	14.3534 mL	28.7068 mL
	5 mM	0.5741 mL	2.8707 mL	5.7414 mL
	10 mM	0.2871 mL	1.4353 mL	2.8707 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.97 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	LQZ-7I is a survivin-targeting inhibitor. LQZ-7I inhibits survivin dimerization. LQZ-7I orally effectively inhibits xenograft tumor growth and induces survivin loss in tumors ^[1] .
IC₅₀ & Target	Survivin ^[1]
In Vitro	LQZ-7I has improved cytotoxicity with IC ₅₀ s of 3.1 μM against C4-2 cells and 4.8 μM against PC-3 cells compared with the parent compound LQZ-7 ^[1] . LQZ-7I (10 μM; 0-6 hours) treatment reduces the expression of survivin. However, LQZ-7I does not reduce the expression of XIAP, CIAP1, and CIAP2. LQZ-7I may be selective to its intended target survivin ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]

	Cell Line:	PC-3 or C4-2 cells
	Concentration:	10 μ M
	Incubation Time:	0-6 hours
	Result:	Reduced the expression of survivin.
In Vivo	LQZ-7I (100 mg/kg; oral gavage every other day for a total of ten treatments) significantly suppresses tumor growth without any notable adverse effect on the mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	6-week old male NSG mice ^[1]
	Dosage:	100 mg/kg; 200 μ L vehicle (90% corn oil/10% DMSO)
	Administration:	Oral gavage every other day for a total of ten treatments
	Result:	Significantly suppressed tumor growth without any notable adverse effect on the mice as indicated by lacking changes in body weight and in wet weight of major organs at the end of the study.

REFERENCES

[1]. Robert Peery, et al. Synthesis and Identification of a Novel Lead Targeting Survivin Dimerization for Proteasome-Dependent Degradation. J Med Chem. 2020 Jun 9.

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

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