RO-5963

Cat. No.:	HY-120086			
CAS No.:	1416663-77-8			
Molecular Formula:	C ₂₄ H ₂₁ ClF ₂ N ₄ O ₅			
Molecular Weight:	518.9			
Target:	MDM-2/p53	;E1/E2/E	3 Enzyme	
Pathway:	Apoptosis; Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 150 mg/mL (2	mL (289.07 mM; Need ultrasonic)				
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.9272 mL	9.6358 mL	19.2715 mL	
		5 mM	0.3854 mL	1.9272 mL	3.8543 mL	
		10 mM	0.1927 mL	0.9636 mL	1.9272 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent o Solubility: ≥ 3.75 n	one by one: 10% DMSO >> 40% PEC ng/mL (7.23 mM); Clear solution	G300 >> 5% Tween-80) >> 45% saline		
	2. Add each solvent o Solubility: ≥ 3.75 n	one by one: 10% DMSO >> 90% (20 ng/mL (7.23 mM); Clear solution	% SBE-β-CD in saline)			

DIOLOGICALACITY	
Description	RO-5963 is a dual p53-MDM2 and p53-MDMX inhibitor with IC ₅₀ s of ~17 nM and ~24 nM, respectively ^[1] .
IC ₅₀ & Target	IC50: ~17 nM (p53-MDM2), ~24 nM (p53-MDMX) ^[1]
In Vitro	RO-5963 (10-20 μM; 48 hours) shows much higher apoptotic activity than Nutlin in both MCF7 and ZR75-30 cell lines ^[1] . RO-5963 (10 μM, 24 hours) effectively activats p53 and elevates p21 and MDM2 levels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis ^[1]
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Cell Line:	ZR75-30, MCF7 cells
Concentration:	10, 20 µM
Incubation Time:	48 hours
Result:	Potently showed apoptotic activity.
Western Blot Analysis ^[1]	
Cell Line:	LNCap, U2OS, RKO, A489, 22Rv1, HCT116, H460, LOX, MCF7, A549, G401 cel
Concentration:	10 μΜ
Incubation Time:	24 hour
Pocult.	Effectively activated n53 and elevated n21 and MDM2 levels

REFERENCES

[1]. Graves B, et al. Activation of the p53 pathway by small-molecule-induced MDM2 and MDMX dimerization. Proc Natl Acad Sci U S A. 2012 Jul 17;109(29):11788-93.

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

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