MI-1061 TFA

Cat. No.:	HY-125858A	
CAS No.:	1410737-35-7	
Molecular Formula:	$C_{32}H_{27}Cl_{2}F_{4}N_{3}O_{6}$	
Molecular Weight:	696.47	H ^F F
Target:	MDM-2/p53; Apoptosis; E1/E2/E3 Enzyme	N N N OH
Pathway:	Apoptosis; Metabolic Enzyme/Protease	
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 120 mg/mL (172.30 mM; Need ultrasonic)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.4358 mL	7.1791 mL	14.3581 mL	
		5 mM	0.2872 mL	1.4358 mL	2.8716 mL	
		10 mM	0.1436 mL	0.7179 mL	1.4358 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent Solubility: ≥ 3 mg/	one by one: 10% DMSO >> 90% (20 mL (4.31 mM); Clear solution	% SBE-β-CD in saline)			
	 Add each solvent Solubility: ≥ 3 mg/ 	one by one: 10% DMSO >> 90% cor mL (4.31 mM); Clear solution	n oil			

BIOLOGICAL ACTIV	
Description	MI-1061 TFA is a potent, orally bioavailable, and chemically stable MDM2 (MDM2-p53 interaction) inhibitor (IC ₅₀ =4.4 nM; K _i =0.16 nM). MI-1061 TFA potently activates p53 and induces apoptosis in the SJSA-1 xenograft tumor tissue in mice. Anti- tumor activity ^[1] .
In Vitro	MI-1061 achieves IC ₅₀ =100 and 250 nM in the SJSA-1 and HCT-116 p53 ^{+/+} cell lines, respectively, and has IC ₅₀ >10000 nM in the p53 knockout cell line HCT-116 p53 ^{-/-} cell line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MI-1061 (100 mg/kg; p.o.; daily for 14 days) is capable of achieving tumor regression in the SJSA-1 xenograft tumor model in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet



Animal Model:	SCID mice bearing SJSA-1 osteosarcoma xenografts ^[1]
Dosage:	100 mg/kg
Administration:	P.o.; daily for 14 days
Result:	Demonstrated strong antitumor activity and achieved significant tumor regression.

CUSTOMER VALIDATION

• Cell Rep. 2022 May 31;39(9):110879.

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REFERENCES

[1]. Aguilar A, et al. Design of chemically stable, potent, and efficacious MDM2 inhibitors that exploit the retro-mannich ring-opening-cyclization reaction mechanism in spiro-oxindoles. J Med Chem. 2014;57(24):10486-10498.

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

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