

Product Data Sheet

M435-1279

 Cat. No.:
 HY-141891

 CAS No.:
 1359431-16-5

 Molecular Formula:
 $C_{18}H_{17}N_3O_5S_2$

 Molecular Weight:
 419.47

Target: E1/E2/E3 Enzyme

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro DMSO: 50 mg/mL (119.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3840 mL	11.9198 mL	23.8396 mL
	5 mM	0.4768 mL	2.3840 mL	4.7679 mL
	10 mM	0.2384 mL	1.1920 mL	2.3840 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	M435-1279 is a UBE2T inhibitor. M435-1279 inhibits the Wnt/ β -catenin signaling pathway hyperactivation through blocking UBE2T-mediated degradation of RACK1 ^[1] .
IC ₅₀ & Target	UBE2T
In Vitro	M435-1279 (0, 2, 4, 8, 16, 31 μM; 48 h) significantly inhibits the growth of HGC27, AGS, and MKN45 cells ^[1] . M435-1279 (0, 4, 8, 12, 16, 20 μM) inhibits the cell viability with IC ₅₀ s of 16.8, 11.88, 6.93, 7.76 μM of GES-1, HGC27, MKN45, AGS cells, respectively ^[1] . M435-1279 (31 nM to 500 μM) binds to UBE2T with a $\rm K_D$ value of 50.5 μM ^[1] . M435-1279 (11.88 μM; 48 h) inhibits the ubiquitination of RACK1 and the hyperactivation of the Wnt/β-catenin pathway ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]

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Cell Line:	HGC27, AGS, and MKN45 cells	
Concentration:	0, 2, 4, 8, 16, 31 μΜ	
Incubation Time:	48 h	
Result:	Inhibited the cell growth.	
Cell Viability Assay ^[1]		
Cell Line:	HGC27, AGS, and MKN45 cells	
Concentration:	0, 4, 8, 12, 16, 20 μΜ	
Incubation Time:		
Result:	Inhibited the cell viability with IC $_{50}$ s of 16.8, 11.88, 6.93, 7.76 μ M in GES-1, HGC27, MKN45, AGS cells, respectively.	

In Vivo

M435-1279 (5 mg/kg/day; intratumor injection for 18 days) slows the tumor growth $^{[1]}$.

M435-1279 induces higher RACK1 proteins expression, and lower Ki-67 and β -catenin proteins expression in intratumor tumors^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/C nude mice CDX model (MKN45 tumor size: 75–100 mm³) ^[1]	
Dosage:	5 mg/kg/day	
Administration:	Intratumor injection for 18 days	
Result:	Slowed the tumor growth. Induced higher RACK1 proteins expression, and lower Ki-67 and β -catenin proteins expression in intratumor tumors.	

REFERENCES

[1]. Yu Z, et al. A novel UBE2T inhibitor suppresses Wnt/ β -catenin signaling hyperactivation and gastric cancer progression by blocking RACK1 ubiquitination. Oncogene. 2021 Feb;40(5):1027-1042. doi: 10.1038/s41388-020-01572-w. Epub 2020 Dec 15. Erratum in: Oncogene. 2021 Apr;40(14):2622-2623.

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

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