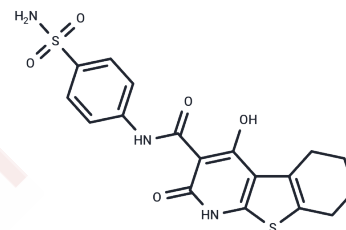


M435-1279

Chemical Properties

CAS No. : 1359431-16-5
 Formula: C₁₈H₁₇N₃O₅S₂
 Molecular Weight: 419.47
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	M435-1279 is a UBE2T inhibitor that blocks UBE2T-mediated degradation of RACK1, thereby inhibiting the hyperactivation of the Wnt/ β -catenin signaling pathway.
Targets(IC50)	E1/E2/E3 Enzyme,Wnt/beta-catenin
In vitro	M435-1279 (0, 2, 4, 8, 16, 31 μ M; 48h) significantly inhibits the growth of AGS, HGC27, and MKN45 cells. It also inhibits cell viability with IC50s of 16.8, 11.88, 7.76, and 6.93 μ M for GES-1, HGC27, AGS, and MKN45 cells, respectively. M435-1279 (31nM to 500 μ M) binds to UBE2T protein with a KD value of 50.5 μ M and (11.88 μ M; 48h) blocks the ubiquitination of RACK1, thereby inhibiting the hyperactivation of the Wnt/ β -catenin pathway[1].
In vivo	M435-1279 (5mg/kg/day; intratumor injection; 18 days) inhibits tumor growth and induces increased expression of RACK1 proteins while decreasing expression of Ki-67 and β -catenin proteins in intratumor tumors[1].

Solubility Information

Solubility	Chloroform: < 1 mg/mL (insoluble or slightly soluble) DMSO: 45 mg/mL (107.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2 mg/mL (4.77 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.384 mL	11.9198 mL	23.8396 mL
5 mM	0.4768 mL	2.384 mL	4.7679 mL
10 mM	0.2384 mL	1.192 mL	2.384 mL
50 mM	0.0477 mL	0.2384 mL	0.4768 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yu Z, Jiang X, Qin L, Deng H, Wang J, Ren W, Li H, Zhao L, Liu H, Yan H, Shi W, Wang Q, Luo C, Long B, Zhou H, Sun H, Jiao Z. 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. PMID: 33323973; PMCID: PMC7862066.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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