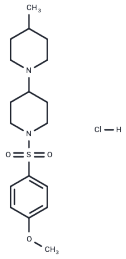
Data Sheet (Cat.No.T24855)

TargetMol

TASIN-1 Hydrochloride

Chemical Properties



CAS No. : 1678515-13-3

Formula: C18H29ClN2O3S

Molecular Weight: 388.95

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	TASIN-1 Hydrochloride (TASIN-1 HCl) is a selective inhibitor of truncated APC that acts by selectively killing colorectal cancer cells that express truncated APC by reducing cellular cholesterol levels and inducing apoptotic cell death through the ER stress/ROS/JNK signaling in colon cancer cells.
Targets(IC50)	Apoptosis,APC/C,Caspase,JNK,ROS
In vivo	In nude mice with established DLD1 and HT29 tumors, intraperitoneal injection of TASIN-1 twice daily for 18 days reduced the size of tumor xenografts and tumor growth rates. TASIN-1 resulted in the appearance of apoptotic cells with fragmented nuclei and induced an increase in cleaved caspase 3 and cleaved PARP1. However, TASIN-1 did not inhibit tumor growth in HCT116 xenografts. In a genetically engineered CRC mouse model, TASIN-1 significantly reduced tumor formation in the colons of CPC [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (141.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.571 mL	12.8551 mL	25.7102 mL
5 mM	0.5142 mL	2.571 mL	5.142 mL
10 mM	0.2571 mL	1.2855 mL	2.571 mL
50 mM	0.0514 mL	0.2571 mL	0.5142 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

Bai R L, Pettit G R, Hamel E. Binding of dolastatin 10 to tubulin at a distinct site for peptide antimitotic agents near the exchangeable nucleotide and vinca alkaloid sites. Journal of Biological Chemistry, 1990, 265(28): 17141-17149.
Zhang L, Kim SB, Luitel K, Shay JW. Cholesterol Depletion by TASIN-1 Induces Apoptotic Cell Death through the ER Stress/ROS/JNK Signaling in Colon Cancer Cells. Mol Cancer Ther. 2018 May;17(5):943-951.
Zhang L, Theodoropoulos PC, Eskiocak U, Wang W, Moon YA, Posner B, Williams NS, Wright WE, Kim SB, Nijhawan D, De Brabander JK, Shay JW. Selective targeting of mutant adenomatous polyposis coli (APC) in colorectal cancer. Sci Transl Med. 2016 Oct 19;8(361):361ra140. PubMed PMID: 27798265.
Cully M. Anticancer drugs: Exploiting a weakness in colorectal cancers. Nat Rev Drug Discov. 2016 Nov 29;15(12): 820-821.

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