Product Data Sheet

Product Name: SM1-71
Cat. No.: GC62675

Chemical Properties

Cas. No.	2088179-99-9		
Formula	$C_{24}H_{26}ClN_7O$	M.Wt	463.96
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	SM1-71		

Background

SM1-71 (compound 5) is a potent TAK1 inhibitor, with a Ki of 160 nM, it also can covalently inhibit MKNK2, MAP2K1/2/3/4/6/7, GAK, AAK1, BMP2K, MAP3K7, MAPKAPK5, GSK3A/B, MAPK1/3, SRC, YES1, FGFR1, ZAK (MLTK), MAP3K1, LIMK1 and RSK2. SM1-71 can inhibit proliferation of multiple cancer cell lines[1][2][3].

SM1-71 (0.001-100 μM; 72 h) potently inhibits the proliferation of H23 and Calu-6 non-small cell lung cancer cell lines with a concentration-dependent manner[1].SM1-71 (72 h) induces potent cytotoxicity with nanomolar values for GR50 and negative GRmax values in eight of 11 cancer cell lines[2].

[1]. Rao S, et, al. Leveraging Compound Promiscuity to Identify Targetable Cysteines within the Kinome. Cell Chem Biol. 2019 Jun 20; 26(6): 818-829.e9.
[2]. Rao S, et, al. A multitargeted probe-based strategy to identify signaling vulnerabilities in cancers. J Biol Chem. 2019 May 24;294(21):8664-8673.
[3]. Tan L, et, al. Structure-guided development of covalent TAK1 inhibitors. Bioorg Med Chem. 2017 Feb 1; 25(3): 838-846.

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