

Product Data Sheet

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

Chemical Properties

Cas. No. 2088179-99-9

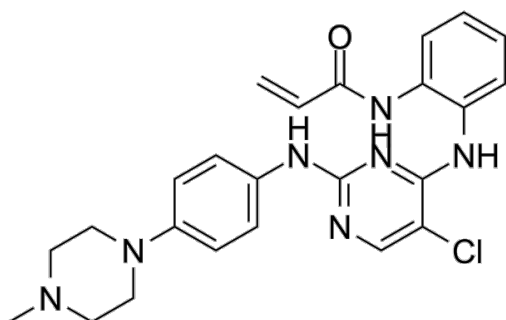
Formula $C_{24}H_{26}ClN_7O$ M.Wt 463.96

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

SM1-71 (compound 5) is a potent TAK1 inhibitor, with a K_i 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 μ M; 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].

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

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- [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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