

Product Data Sheet

Product Name: TH-6
Cat. No.: GC73212

Chemical Properties

Cas. No. 3031349-25-1

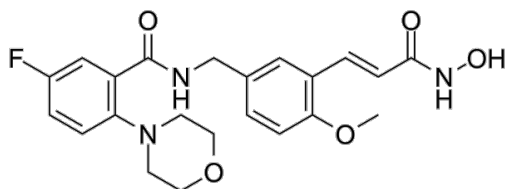
Formula $C_{22}H_{24}FN_3O_5$ M.Wt 429.44

Solubility DMSO : 50 mg/mL (116.43 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light

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

TH-6 is a potent HDAC inhibitor with IC₅₀s of 0.115, 0.135, 0.242, 0.138, 2.120 μM for HDAC1, HDAC2, HDAC3, HDAC6, HDAC8, respectively. TH-6 inhibits cell migration and invasion. TH-6 induces apoptosis and cell cycle arrest at G2/M phase. TH-6 shows anti-tumor activity.

TH-6 (0-2 μM) shows antiproliferative activities in cancer cell lines and normal human lung cells[1]. TH-6 (0-10 μM) inhibits tubulin polymerization with an IC₅₀ value of 4.06 μM[1]. TH-6 (0.03,

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0.1, 0.3 1 μ M; 24 h) increases the expression of Ac- α -Tubulin and AC-Histone H3 in HepG2 cells[1].TH-6 (7.5, 15, 30 nM) induces apoptosis and cell cycle arrest at G2/M phase[1].TH-6 (0-30 nM) decreases the MMP and increase ROS levels of HepG2 cells in a dose-dependent manner[1].TH-6 (7.5, 15, 30 nM; 48 h) inhibits cell migration and invasion in MDA-MB-231 cells and suppress the migration of HUVECs in a concentration-dependent manner[1].TH-6 shows favorable liver microsomal stability in vitro with t_{1/2} of 50.3 min[1].

TH-6 (10, 20 mg/kg; i.v.; daily for 21 days) shows anti-tumor activity in mouse[1].TH-6 (20 mg/kg) shows antivasular activity and a good cardiovascular safety profile in mouse[1].

References:

[1]. Zhu H, et al. Discovery of a Novel Vascular Disrupting Agent Inhibiting Tubulin Polymerization and HDACs with Potent Antitumor Effects. J Med Chem. 2022 Aug 4.

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