Data Sheet (Cat.No.T7296)



THZ2

Chemical Properties

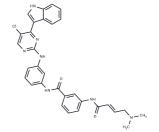
CAS No.: 1604810-84-5

Formula: C31H28ClN7O2

Molecular Weight: 566.05

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

an analog of THZ1, is a potent and selective CDK7 inhibitor(IC50:13.9 ntial to treat Triple-negative breast cancer (TNBC).
l six cell lines were decreased in a dose-dependent manner after THZ2 cells were most insensitive to THZ2 with the highest IC50 values of 2.45 es of THZ2 in AGS, BGC-823, MGC-803, MKN-45 and SGC-7901 were 0.74 μM, 0.73 μM and 0.68 μM respectively, which were positively expression of CDK7 in these cells[1].
ograft tumor models by transplanting BGC-823 cells into nude mice. e control group, treatment with THZ2 significantly inhibited the growth by diminishing the volume and weight of tumors, but did not change nude mice. The inhibition rate of tumor growth in THZ2 treatment [1].
eeded into a 96-well plate at a density of 3000 cells per well, and Z2 in three parallel wells for 72 h. Then MTT was added to each well at on of 0.5 mg/ml. After incubation for 4 h, formazan crystals were of DMSO, and absorbance at 570 nm was measured by plate reader. Is required to inhibit growth by 50% (IC50) were calculated from any the Bliss method[1].
feed on sterilized food and water. Six female nude mice with 5 weeks two groups. Each mouse was injected subcutaneously with BGC-823 00 µl of medium) under the shoulder. When the subcutaneous tumors ly 0.3 × 0.3 cm^2 (two perpendicular diameters) in size, mice were wo groups, and were injected intraperitoneally with vehicle alone THZ2 (10 mg/kg) once/day at first 16 days and twice/day at last 6 eights of mice and the two perpendicular diameters (A and B) of ded. The tumor volume (V) was calculated according to the formula: V ^3. The mice were anaesthetized after experiment, and tumor tissue the mice and weight. The rate of inhibition (IR) was calculated ormula: IR = [1 - (Mean tumor weight of experimental group/Mean ontrol group)] × 100%[1].

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Solubility Information

•	DMSO: 39 mg/mL (68.90 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7666 mL	8.8331 mL	17.6663 mL
5 mM	0.3533 mL	1.7666 mL	3.5333 mL
10 mM	0.1767 mL	0.8833 mL	1.7666 mL
50 mM	0.0353 mL	0.1767 mL	0.3533 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.

Reference

Tel:781-999-4286

Jiang L, Yu Y, Li Z, et al.BMS-265246, a Cyclin-Dependent Kinase Inhibitor, Inhibits the Infection of Herpes Simplex Virus Type 1.Viruses.2023, 15(8): 1642.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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