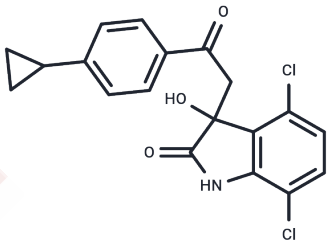
Data Sheet (Cat.No.T13166)

TargetMol

TK216

Chemical Properties



CAS No. : 1903783-48-1

Formula: C19H15Cl2NO3

Molecular Weight: 376.23

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	TK216 is a potent inhibitor of E26 transformation-specific (ETS) with anticancer activity.
Targets(IC50)	DNA/RNA Synthesis
In vitro	In DLBCL cell lines, TK216 (500 nM; for 24-72 hours) induces apoptosis [1]. TK216 (0.03, 0.06, 0.125, 0.25, 0.5 μM) results in a dose-dependent inhibition of proliferation in Ewing Sarcoma A4573 cell line[1]. In DLBCL cell lines,TK216 (0.1, 0.3, 1 μM) induces apoptosis , with the amount of cleaved-Caspase 3 normalized to b-actin and presented as fold over control[1]. TK216 has IC50s of 0.363 μM and 0.152 μM for HL-60 AML cell line and TMD-8 DLBCL cell line[1]. TK216 inhibits EWS-FLI1 (Ewing sarcoma breakpoint region 1/Friend leukemia virus integration 1 fusion protein) protein interactions, leading to a decrease in transcription and proliferation[1].
In vivo	In the TMD-8 xenograft model, TK216 (po; 100 mg/kg; twice daily for 13 days) results in tumor growth inhibition [1].

Solubility Information

Solubility	DMSO: 249 mg/mL (661.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (13.29 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6579 mL	13.2897 mL	26.5795 mL
5 mM	0.5316 mL	2.6579 mL	5.3159 mL
10 mM	0.2658 mL	1.329 mL	2.6579 mL
50 mM	0.0532 mL	0.2658 mL	0.5316 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

Spriano F, et al. The ETS Inhibitors YK-4-279 and TK-216 Are Novel Antilymphoma Agents. Clin Cancer Res. 2019 Aug 15;25(16):5167-5176.
Brian Lannutti, et al. Uses of indolinone compounds. US10159660B2.