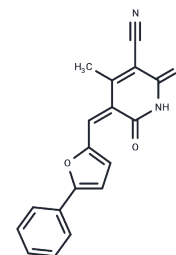


ZINC05007751

Chemical Properties

CAS No. : 591239-68-8
 Formula: C₁₈H₁₂N₂O₃
 Molecular Weight: 304.3
 Storage: Keep away from direct sunlight
 Powder: -20°C for 3 years
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	ZINC05007751 is an effective inhibitor of NIMA-related kinase NEK6 (IC ₅₀ = 3.4 μM). ZINC05007751 is very selective against NEK1 and NEK6 with no significant activity observed against NEK2, NEK7, and NEK9.
Targets(IC ₅₀)	MAPK
In vitro	In ovarian cancer cells PEO1, ZINC05007751 induced perturbation of the cell cycle. ZINC05007751 showed synergism with Cisplatin, resulting in a significant reduction of Cisplatin IC ₅₀ from 7.9 to 0.1 μM, with a combination of ZINC05007751 (44 μM)+Cisplatin (10 μM) exhibiting the greatest synergistic effect. ZINC05007751 (6 μM-190 μM; 24 hours) inhibited the growth of MDA-MB-231, PEO1, NCI-H1299, and HCT-15 with IC ₅₀ below 100 μM[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (26.29 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2862 mL	16.4312 mL	32.8623 mL
5 mM	0.6572 mL	3.2862 mL	6.5725 mL
10 mM	0.3286 mL	1.6431 mL	3.2862 mL
50 mM	0.0657 mL	0.3286 mL	0.6572 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

De Donato M, et al. Identification and antitumor activity of a novel inhibitor of the NIMA-related kinase NEK6. Sci Rep. 2018;8(1):16047. Published 2018 Oct 30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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