ZINC05007751

Cat. No.:	HY-122639	
CAS No.:	591239-68-8	
Molecular Formula:	C ₁₈ H ₁₂ N ₂ O ₃	
Molecular Weight:	304.3	
Target:	Others	- ON N
Pathway:	Others	
Storage:	4°C, protect from light * The compound is unstable in solutions, freshly prepared is recommended.	

SOLVENT & SOLUBILITY

In Vitro

 $\mathsf{DMSO}:$ 8.33 mg/mL (27.37 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.2862 mL	16.4312 mL	32.8623 n
	5 mM	0.6572 mL	3.2862 mL	6.5725 m
	10 mM	0.3286 mL	1.6431 mL	3.2862 m

Please refer to the solubility information to select the appropria	te solvent.
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BIOLOGICAL ACTIV			
Description	ZINC05007751 is a potent NIMA-related kinase NEK6 inhibitor with an IC ₅₀ of 3.4 μM. ZINC05007751 shows antiproliferative activity against a panel of human cancer cell lines, and displays a synergistic effect with Cisplatin and Paclitaxel in a BRCA2 mutated ovarian cancer cell line. ZINC05007751 is very selective against NEK1 and NEK6 with no significant activity was observed against NEK2, NEK7, and NEK9 ^[1] .		
In Vitro	n Vitro ZINC05007751 (6 μ M-190 μ M; 24 hours) inhibits the growth of MDA-MB-231, PEO1, NCI-H1299 and 100 μ M ^[1] . ZINC05007751 induces perturbation of PEO1 cell cycle ^[1] . ZINC05007751 (ovarian cancer cells PEO1) shows synergism with Cisplatin, resulting in a signification IC50 from 7.9 to 0.1 μ M, with combination ZINC05007751 (44 μ M) + Cisplatin (10 μ M) exhibiting th [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference on ICell Cytotoxicity Assay ^[1]		
	Cell Line:	MDA-MB-231, PEO1, NCI-H1299 and HCT-15 cells	



Concentration:	6 μΜ-190 μΜ
Incubation Time:	24 hours
Result:	Inhibited the growth of MDA-MB-231, PEO1, NCI-H1299 and HCT-15.

CUSTOMER VALIDATION

• Antiviral Res. 2023 Nov 20:105761.

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REFERENCES

[1]. 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.

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

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