MARK4 inhibitor 2

MedChemExpress

Cat. No.:	HY-154986		
Molecular Formula:	$C_{_{34}}H_{_{30}}N_{_4}O_{_3}$		
Molecular Weight:	542.63		
Target:	AMPK		
Pathway:	Epigenetics	; PI3K/Akt	/mTOR
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

Preparing Stock Solutio		Mass Solvent Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.8429 mL	9.2144 mL	18.4288 mL
		5 mM	0.3686 mL	1.8429 mL	3.6858 mL
		10 mM	0.1843 mL	0.9214 mL	1.8429 mL
	Please refer to the so	ubility information to select the app	propriate solvent.		
/0		ubility information to select the app one by one: 10% DMSO >> 90% cor			

BIOLOGICAL ACTIV	ТТҮ		
Description	MARK4 inhibitor 2 is an inhibitor of microtubule affinity-regulating kinase 4 (MARK4) with an K _m of 6.3×10 ⁷ and an IC ₅₀ of 0.82 μM. MARK4 inhibitor 2 inhibits the growth of human cells and can be used for cancer research ^[1] .		
IC₅₀ & Target	IC50: 0.82 μM (MARK4) ^[1] K _m :6.3×10 ^{7[1]}		
In Vitro	cells with EC ₅₀ s ranging	apound 23a) (0-20 μM; 24 hour) inhibits the growth of HeLa, U87MG, MDA-MB-435, U251 and HGFs g from 1.76 μM to 7.98 μM ^[1] . ently confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	HeLa, U87MG, MDA-MB-435, U251, HGFs cells	
	Concentration:	0-20 μΜ	

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Incubation Time:	24 hours
Result:	Inhibited the growth of human cells with EC_{50}s of 2.13, 4.13, 1.76, 7.98, 3.55 μM for HeLa,
	U87MG, MDA-MB-435, U251, HGFs cells, respectively.
	Decreased the proliferation of human cancer cells in the low micromolar range; also
	affects the non-cancerous HGF cells.

REFERENCES

[1]. Maria Voura, et.al. Synthesis, Structural Modification, and Bioactivity Evaluation of Substituted Acridones as Potent Microtubule Affinity-Regulating Kinase 4 InhibitorsACS Pharmacology & Translational Science 2023 6 (7), 1052-1074.

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

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