ΡΙ3Κδ-ΙΝ-11

®

MedChemExpress

Cat. No.:	HY-143472	N
CAS No.:	2413257-51-7	
Molecular Formula:	C ₂₇ H ₂₁ N ₅ O	
Molecular Weight:	431.49	N NH
Target:	PI3K; Akt; Apoptosis	
Pathway:	PI3K/Akt/mTOR; Apoptosis	HN A
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Description	PI3Kδ-IN-11 is a highly pote	nt and selective ΡΙ3Κδ inhibitor with IC ₅₀ value of 27.5 nM. ΡΙ3Κδ-IN-11 dose-dependently blocks	
	the activity of PI3K/Akt path	uway. PI3Kδ-IN-11 can be used for researching B or T cell-related malignancies ^[1] .	
IC_{50} & Target	ΡΙ3Κδ 27.5 nM (IC ₅₀)		
In Vitro	PI3Kδ-IN-11 (compound 15α PI3Kδ-IN-11 (0.2-15 μM; 0-4ξ PI3Kδ-IN-11 (5 μM; 24 hours PI3Kδ-IN-11 (1-1000 nM; 24 l MCE has not independently Cell Viability Assay	10 μM; 48 hours) inhibits Raji and Ramos with IC ₅₀ s of 8.5 μM and 5.4 μM, respectively ^[1] . rs) dampens the proliferation of Raji cells in a dose- and time-dependent manner ^[1] . gers 10.78% apoptosis of cells ^[1] . s) dose-dependently reduces the phosphorylation of Akt (S473) ^[1] . irmed the accuracy of these methods. They are for reference only.	
	Cell Line:	Raji and Ramos ^[1]	
	Concentration:	0-10 μΜ	
	Incubation Time:	48 hours	
	Result:	Inhibited Raji and Ramos with $IC_{50}s$ of 8.5 μM and 5.4 $\mu M,$ respectively.	
	Cell Proliferation Assay		
	Cell Line:	Raji ^[1]	
	Concentration:	0.2, 1, 4, 8, 10 and 15 μM	
	Incubation Time:	0, 12, 24, 36, 48 hours	
	Result:	Dampened the proliferation of Raji cells in a dose- and time-dependent manner.	
	Apoptosis Analysis		
	Cell Line:	Raji ^[1]	

Concentration:	5 μΜ
Incubation Time:	24 hours
Result:	Triggered 10.78% apoptosis of cells.
Western Blot Analysis	
Cell Line:	Raji ^[1]
Concentration:	1, 10, 100, 500 and 1000 nM
Incubation Time:	24 hours
Result:	Dose-dependently reduced the phosphorylation of Akt (S473), illustrating that the a of PI3K/Akt pathway was efficiently blocked.

REFERENCES

[1]. Teng Y, Li X, Ren S, et al. Discovery of novel quinazoline derivatives as potent PI3Kδ inhibitors with high selectivity. Eur J Med Chem. 2020;208:112865.

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

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