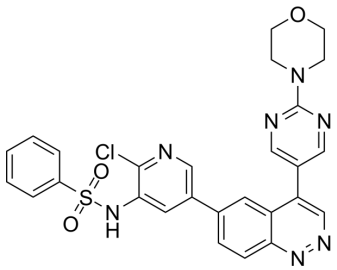
PI3K-IN-29

Cat. No.:	HY-144450
CAS No.:	2768005-77-0
Molecular Formula:	$C_{27}H_{22}ClN_7O_3S$
Molecular Weight:	560.03
Target:	PI3K; Akt
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

PI3K-IN-29 is a potent PI3K inhibitor. PI3K-IN-29 displays good inhibition potencies against U87MG, HeLa and HL60 cells with IC_{50} values of 0.264, 2.04 and 1.14 μM, respectively. PI3K-IN-29 inhibits PI3K/Akt pathway by inhibiting phosphorylation of Akt that is catalyzed by PI3K[1].

In Vitro

PI3K-IN-29 (compound 25) (72 h) displays good inhibition potencies against U87MG, HeLa and HL60 cells with IC_{50} values of 0.264, 2.04 and 1.14 μM, respectively[1].

PI3K-IN-29 (U87MG cells; 1, 5 μM; 1 h) inhibits PI3K/Akt pathway by inhibiting phosphorylation of Akt that is catalyzed by PI3K[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	U87MG, HeLa, HepG2, A549, HL60, MCF7 cells
Concentration:	
Incubation Time:	72 h
Result:	Displayed good inhibition potencies against U87MG, HeLa and HL60 cells with IC_{50} values of 0.264, 2.04 and 1.14 μM, respectively.

Western Blot Analysis[1]

Cell Line:	U87MG cells
Concentration:	1, 5 μM
Incubation Time:	1 h
Result:	Inhibited PI3K/Akt pathway by inhibiting phosphorylation of Akt that was catalyzed by PI3K.

REFERENCES

[1]. Tian C, et al. Discovery of cinnoline derivatives as potent PI3K inhibitors with antiproliferative activity. Bioorg Med Chem Lett. 2021, 48:128271.

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