AKT-IN-18

Cat. No.: HY-149842

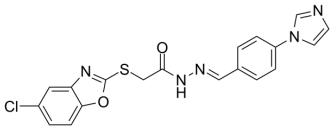
Molecular Formula: $C_{19}H_{14}ClN_5O_2S$

Molecular Weight: 411.86

Target: Akt; Apoptosis

Pathway: PI3K/Akt/mTOR; Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AKT-IN-18, an inhibitor of Akt, inhibits Akt with an IC_{50} of 69.45 μM in A549 cells. AKT-IN-18 induces apoptosis and can be used in non-small cell lung cancer study[1].
IC_{50} & Target	Akt 69.45 μM (IC_{50})
In Vitro	AKT-IN-18 (Compound 3i) (0-500 μM; 24 hours) exerts cytotoxic activity against A549 cells, and induces apoptosis [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis[1]

Cell Line:	A549, L929 cells
Concentration:	0-500 μM
Incubation Time:	24 hours
Result:	Exerted cytotoxic activity against A549 cells with IC_{50} of 83.59 μM without influencing normal (L929) cells at effective doses. Induced early apoptosis caused at 2.7% and late apoptotic cells at 6.04%.

REFERENCES

[1]. Erdönmez B,et.al. Design, Synthesis, and Evaluation of a New Series of Hydrazones as Small-Molecule Akt Inhibitors for NSCLC Therapy. ACS Omega. 2023 May 24;8(22):20056-20065.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA