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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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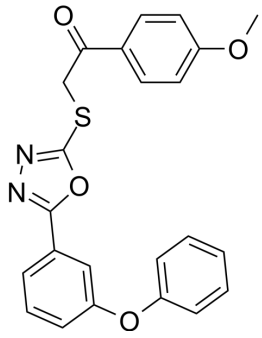
VEGFR-2-IN-46

Cat. No.:	HY-163740
Molecular Formula:	$C_{23}H_{18}N_2O_4S$
Molecular Weight:	418.47
Target:	Apoptosis; Necroptosis; VEGFR
Pathway:	Apoptosis; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

VEGFR-2-IN-46 (compound 4d) is a potent VEGFR-2 inhibitor with an EC_{50} value of 67.0 nM. VEGFR-2-IN-46 shows cytotoxicity and induces cell cycle arrest at the G2/M phase. VEGFR-2-IN-46 induces necrosis and apoptosis[1].

In Vitro

VEGFR-2-IN-46 (compound 4d) shows cytotoxicity with IC_{50}s of 501, 34.3, 25.0, 128.7 μM for HT-29, HeLa, HepG2, MCF10A cells, respectively[1].

VEGFR-2-IN-46 (25 μM; 72 h) induces cell cycle arrest at G2/M phase and necrosis, apoptosis in HepG2 cells[1].

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

Cell Cytotoxicity Assay[1]

Cell Line:	HT-29, HeLa, HepG2, MCF10A cells
Concentration:	
Incubation Time:	
Result:	Showed cytotoxicity with IC_{50}s of 501, 34.3, 25.0, 128.7 μM for HT-29, HeLa, HepG2, MCF10A cells, respectively.

Cell Cycle Analysis[1]

Cell Line:	HepG2 cells
Concentration:	25 μM
Incubation Time:	72 h
Result:	Induced cell cycle arrest at G2/M phase with the proportion of G2/M phase cell arrest at 79.7%.

Apoptosis Analysis[1]

Cell Line:	HepG2 cells
Concentration:	25 μM
Incubation Time:	72 h

Result:	Induced necrosis and apoptosis with the proportion of necrotic, and apoptotic cells of 46.6% and 32.6%, respectively.

REFERENCES

[1]. Heriz MH, et al. Synthesis, docking study, and antitumor evaluation of benzamides and oxadiazole derivatives of 3-phenoxybenzoic acid as VEGFR-2 inhibitors. Drug Dev Res. 2024 May;85(3):e22186.

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