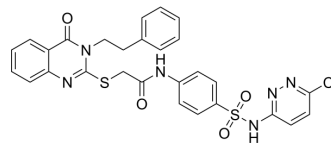


VEGFR-2-IN-30

Cat. No.:	HY-151969
Molecular Formula:	C ₂₈ H ₂₃ ClN ₆ O ₄ S ₂
Molecular Weight:	607.1
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VEGFR-2-IN-30 is a VEGFR-2 inhibitor (IC ₅₀ : 66 nM). VEGFR-2-IN-30 also inhibits PDGFR, EGFR and FGFR1 with IC ₅₀ s of 180, 98, 82 nM respectively. VEGFR-2-IN-30 arrests cancer cell at S-phase and induces early and late apoptosis ^[1] .																
IC₅₀ & Target	VEGFR2 66 nM (IC ₅₀)																
In Vitro	<p>VEGFR-2-IN-30 (compound 8f) (10 μM) inhibits UO-31 cell growth by 35%^[1].</p> <p>VEGFR-2-IN-30 (10 μg/mL, 72 h) inhibits HUVEC cell migration^[1].</p> <p>VEGFR-2-IN-30 (5.29 μM, 24 h) arrests UO-31 cells at the S phase^[1].</p> <p>VEGFR-2-IN-30 (5.29 μM, 24 h) induces UO-31 cell apoptosis^[1].</p> <p>VEGFR-2-IN-30 (5.29 μM, 24 h) increases the Bax level and down-regulates Bcl-2 level in UO-31 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Migration Assay ^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>NHUVEC</td> </tr> <tr> <td>Concentration:</td> <td>10 μg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell migration by 58.52%.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>UO-31 cell</td> </tr> <tr> <td>Concentration:</td> <td>5.29 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Increased early apoptotic cells from 0.61% to 23.51% and late apoptotic cells from 0.13% to 9.28%. Increased the level of active caspase-3.</td> </tr> </table>	Cell Line:	NHUVEC	Concentration:	10 μg/mL	Incubation Time:	72 h	Result:	Inhibited cell migration by 58.52%.	Cell Line:	UO-31 cell	Concentration:	5.29 μM	Incubation Time:	24 h	Result:	Increased early apoptotic cells from 0.61% to 23.51% and late apoptotic cells from 0.13% to 9.28%. Increased the level of active caspase-3.
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REFERENCES

[1]. Zahran SS, et al. Antiproliferative, antiangiogenic and apoptotic effect of new hybrids of quinazoline-4(3H)-ones and sulfachloropyridazine. Eur J Med Chem. 2023 Jan 5;245(Pt 1):114912.

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

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