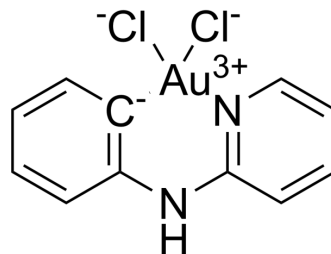


AQP3-IN-1

Cat. No.:	HY-157979
CAS No.:	198711-19-2
Molecular Formula:	C ₁₁ H ₉ AuCl ₂ N ₂
Molecular Weight:	437.08
Target:	Aquaporin
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AQP3-IN-1 (compounds 3) is an AQP3 inhibitor with a IC ₅₀ value of 8.91 μM. AQP3-IN-1 inhibits cell proliferation of melanoma cells ^[1] .																
IC₅₀ & Target	AQP3 8.91 μM (IC ₅₀)																
In Vitro	<p>AQP3-IN-1 (compound 3) (5 μM, 30 min) inhibits cell permeability and glycerol permeability of erythrocytes overexpressing AQP3, but does not affect their water permeability^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MNT-1, A375 and HEK-293T</td> </tr> <tr> <td>Concentration:</td> <td>2.5-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Had no toxic effect on MNT-1 and A375 cells and did not affect cell viability.</td> </tr> </table> <p>Cell Migration Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MNT-1, A375</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>0, 9, 24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited melanoma cell adhesion, proliferation, and migration.</td> </tr> </table>	Cell Line:	MNT-1, A375 and HEK-293T	Concentration:	2.5-10 μM	Incubation Time:	24 h	Result:	Had no toxic effect on MNT-1 and A375 cells and did not affect cell viability.	Cell Line:	MNT-1, A375	Concentration:	5 μM	Incubation Time:	0, 9, 24 h	Result:	Inhibited melanoma cell adhesion, proliferation, and migration.
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REFERENCES

[1]. Rodrigues C, et al. Human Aquaporin-5 Facilitates Hydrogen Peroxide Permeation Affecting Adaption to Oxidative Stress and Cancer Cell Migration. Cancers (Basel). 2019 Jul 3;11(7):932.

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

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