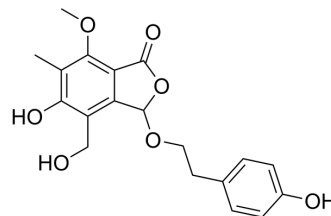


## Antiangiogenic agent 3

Cat. No.:	HY-149921
Molecular Formula:	C <sub>19</sub> H <sub>20</sub> O <sub>7</sub>
Molecular Weight:	360.36
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antiangiogenic agent 3 (compound 3) is a potent antiangiogenic agent. Antiangiogenic agent 3 is an inhibitor of human umbilical vein endothelial cells (HUVEC). Antiangiogenic agent 3 inhibits HUVEC migration and chemotactic motilities. Antiangiogenic agent 3 also decreases the gene expression of Src, cdc42, and MAPK <sup>[1]</sup> .								
<b>In Vitro</b>	<p>Antiangiogenic agent 3 (6.25-200 μM; 48 h) decreases cell viability of human umbilical vein endothelial cells (HUVEC)<sup>[1]</sup>. Antiangiogenic agent 3 (5 μM, 10 μM; 24 h) inhibits HUVEC migration or chemotactic motilities induced by VEGF, with 30% and 33% inhibition rate at 5 μM and 10 μM, respectively<sup>[1]</sup>.</p> <p>Antiangiogenic agent 3 (10 μM; 24 h) down-regulates the gene expressions of Src, cdc42, and MAPK related to the migration of epithelial cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>RT-PCR<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Human umbilical vein endothelial cells (HUVEC)</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Decreased the expressions of VEGF and some related to epithelial cell survival, such as Akt and mTOR. Decreased the expressions of Src, cdc42, and MAPK.</td> </tr> </table>	Cell Line:	Human umbilical vein endothelial cells (HUVEC)	Concentration:	10 μM	Incubation Time:	24 hours	Result:	Decreased the expressions of VEGF and some related to epithelial cell survival, such as Akt and mTOR. Decreased the expressions of Src, cdc42, and MAPK.
Cell Line:	Human umbilical vein endothelial cells (HUVEC)								
Concentration:	10 μM								
Incubation Time:	24 hours								
Result:	Decreased the expressions of VEGF and some related to epithelial cell survival, such as Akt and mTOR. Decreased the expressions of Src, cdc42, and MAPK.								

### REFERENCES

[1]. Gamage C D B, et al. Phthalides Isolated from the Endolichenic Arthrimum sp. EL000127 Exhibits Antiangiogenic Activity[J]. ACS Omega, 2023.

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

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