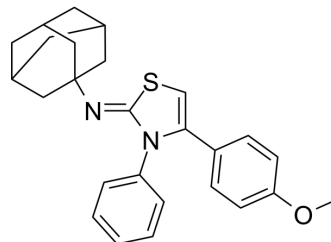


## Antiproliferative agent-17

Cat. No.:	HY-152090
CAS No.:	2882206-08-6
Molecular Formula:	C <sub>26</sub> H <sub>28</sub> N <sub>2</sub> OS
Molecular Weight:	416.58
Target:	Bacterial; Sirtuin
Pathway:	Anti-infection; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antiproliferative agent-17 is an antiproliferative agent. Antiproliferative agent-17 inhibits Gram-positive bacteria and has anticancer activity <sup>[1]</sup> .
<b>In Vitro</b>	<p>Antiproliferative agent-17 (compound 5e) shows activity against the Gram-positive bacteria <i>Staphylococcus aureus</i> IFO 3060, <i>Bacillus subtilis</i> IFO 3007 and <i>Micrococcus luteus</i> IFO 3232. Antiproliferative agent-17 has no activity against the tested Gram-negative bacteria and fungi<sup>[1]</sup>.</p> <p>Antiproliferative agent-17 (compound 5e) displays anti-proliferative activity with IC<sub>50</sub> values of 12.85 μM, 11.96 μM, 16.30 μM, 9.87 μM, and 6.90 μM for PC-3 (human prostate cancer), HCT-116 (human colorectal cancer), HepG-2 (human hepatocellular cancer), HeLa (human cervical cancer), and MCF-7 (human breast cancer), respectively<sup>[1]</sup>.</p> <p>Antiproliferative agent-17 (compound 5e) binds to the active site of the SIRT1 enzyme, occupying the positions of the NAD cofactor and the known histone deacetylase inhibitor EX527<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Eman T Warda, et al. Synthesis and in vitro antibacterial, antifungal, anti-proliferative activities of novel adamantane-containing thiazole compounds. *Sci Rep.* 2022 Dec 6;12(1):21058.

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

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