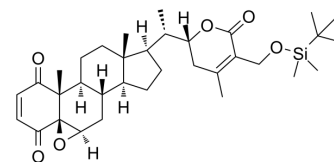


## 27-TBDMS-4-Dehydrowithaferin A

<b>Cat. No.:</b>	HY-N10355
<b>CAS No.:</b>	1214886-31-3
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>50</sub> O <sub>6</sub> Si
<b>Molecular Weight:</b>	582.84
<b>Target:</b>	Apoptosis
<b>Pathway:</b>	Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	27-TBDMS-4-Dehydrowithaferin A, a withaferin A derivative, exhibits potent antiproliferative effects on the tumor cells. 27-TBDMS-4-Dehydrowithaferin A induces tumor cells apoptosis. 27-TBDMS-4-Dehydrowithaferin A is an anticancer agent <sup>[1]</sup> .
<b>In Vitro</b>	27-TBDMS-4-Dehydrowithaferin A (compound 9b; 48 h) exhibits potent antiproliferative effects on HeLa (IC <sub>50</sub> =1.7 μM), A-549 (IC <sub>50</sub> =5.3 μM), MCF-7 (IC <sub>50</sub> =0.5 μM), and normal Vero cells (IC <sub>50</sub> =3.1 μM) <sup>[1]</sup> . 27-TBDMS-4-Dehydrowithaferin A (24 μM; 48 h) activates caspase-3 in HeLa cells <sup>[1]</sup> . 27-TBDMS-4-Dehydrowithaferin A (8 μM; 1-4 h) with a longer incubation period (2-4 h) leads to apoptosis, effect that was maintained at concentrations of 12 and 16 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Gabriel G Llanos, et al. Withaferin A-related steroids from *Withania aristata* exhibit potent antiproliferative activity by inducing apoptosis in human tumor cells. *Eur J Med Chem.* 2012 Aug;54:499-511.

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

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