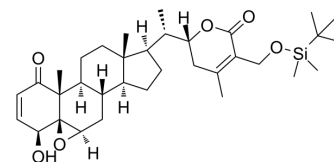


27-O-(tert-Butyldimethylsilyl)withaferin A

Cat. No.:	HY-N10351
CAS No.:	1392820-18-6
Molecular Formula:	C ₃₄ H ₅₂ O ₆ Si
Molecular Weight:	584.86
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	27-O-(tert-Butyldimethylsilyl)withaferin A (compound 9a), a natural withanolide, is an apoptosis inducer. 27-O-(tert-Butyldimethylsilyl)withaferin A shows antiproliferative activity against HeLa, A-549 and MCF-7 human cancer cell lines, and against normal Vero cells ^[1] .
In Vitro	27-O-(tert-Butyldimethylsilyl)withaferin A (compound 9a; 32 μM; 4-8 hours) inhibits caspase-3 activity in HeLa cells ^[1] . 27-O-(tert-Butyldimethylsilyl)withaferin A (48 hours) shows antiproliferative activity against HeLa, A-549, MCF-7, and Vero cells with IC ₅₀ values of 0.9 μM, 1.5 μM, 0.7 μM, and 0.7 μM, respectively ^[1] . 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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