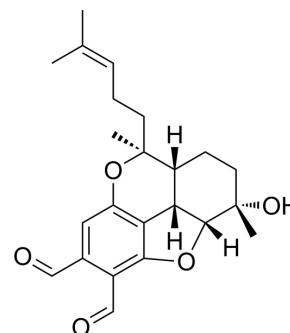


Bisabosqual A

Cat. No.:	HY-163178
CAS No.:	180027-46-7
Molecular Formula:	C ₂₃ H ₂₈ O ₅
Molecular Weight:	384.47
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bisabosqual A, a potent asparagine synthetase (ASNS) inhibitor, with an IC ₅₀ of 10.7 μM. Bisabosqual A can covalently modify the K556 site of ASNS protein. Bisabosqual A promotes oxidative stress and apoptosis, while inhibiting autophagy, cell migration and epithelial-mesenchymal transition (EMT), impeding cancer cell development ^[1] .
In Vitro	Bisabosqual A suppresses the proliferation and migration of human non-small cell lung cancer A549 cells ^[1] . Bisabosqual A induces negative feedback pathways containing the GCN2-eIF2α-ATF4, PI3K-AKT-mTORC1 and RAF-MEK-ERK axes, but combination treatment of Bis A and rapamycin/torin-1 overcomes the potential drug resistance triggered by mTOR pathways ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pan Y, et al. Bisabosqual A: A novel asparagine synthetase inhibitor suppressing the proliferation and migration of human non-small cell lung cancer A549 cells. *Eur J Pharmacol.* 2023 Dec 5;960:176156.

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

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