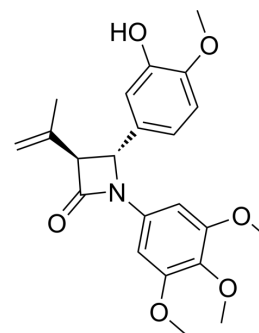


Tubulin polymerization-IN-46

Cat. No.:	HY-155841
Molecular Formula:	C ₂₂ H ₂₅ NO ₆
Molecular Weight:	399.44
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tubulin polymerization-IN-46 (compound 9q) is a microtubule/Tubulin inhibitor that inhibits tubulin polymerization and induces apoptosis. Tubulin polymerization-IN-46 inhibits mitosis and arrests MCF-7 cells in the G2/M phase. Tubulin polymerization-IN-46 has anti-proliferative activity against MCF-7 breast cancer cells with an IC ₅₀ of 10 nM ^[1] .
In Vitro	Tubulin polymerization-IN-46 (compound 9q) (0.5 μM; 16 h) induces depolymerization of the microtubule network in MCF-7 breast cancer cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang S, et al. Antiproliferative and Tubulin-Destabilising Effects of 3-(Prop-1-en-2-yl)azetidin-2-Ones and Related Compounds in MCF-7 and MDA-MB-231 Breast Cancer Cells. *Pharmaceuticals (Basel)*. 2023 Jul 13;16(7):1000..

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA