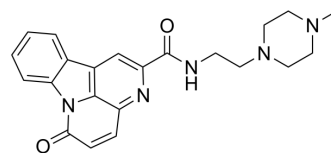


Anticancer agent 154

Cat. No.:	HY-155203
Molecular Formula:	C ₂₂ H ₂₃ N ₅ O ₂
Molecular Weight:	389.45
Target:	Apoptosis; Reactive Oxygen Species; Ferroptosis
Pathway:	Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Anticancer agent 154 (Compound 8h) increases the levels of reactive oxygen species and leads to mitochondrial damage. Anticancer agent 154 induces cell apoptosis and DNA damage. Anticancer agent 154 also induces ferroptosis by reducing the GSH level and GPX4 expression and increasing the lipid peroxidation level. Anticancer agent 154 inhibits cancer cell (HT29, H1975, A549, and MCF-7) proliferation with IC₅₀s of 1.0-1.9 μM^[1].

REFERENCES

[1]. Ding J, et al. Novel Canthin-6-one Derivatives: Design, Synthesis, and Their Antiproliferative Activities via Inducing Apoptosis, Deoxyribonucleic Acid Damage, and Ferroptosis. ACS Omega. 2023 Aug 18;8(34):31215-31224.

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

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