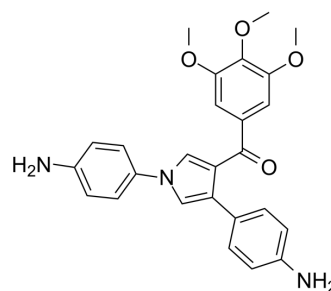


Anticancer agent 49

Cat. No.:	HY-146358
CAS No.:	2395009-34-2
Molecular Formula:	C ₂₆ H ₂₅ N ₃ O ₄
Molecular Weight:	443.49
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

Anticancer agent 49 (compound 69) is a broad spectrum anticancer agent. Anticancer agent 49 inhibits tubulin polymerization. Anticancer agent 49 shows antiproliferative activity. Anticancer agent 49 has the potential for the research of solid and hematological tumors^[1].

In Vitro

Anticancer agent 49 (compound 69) inhibits tubulin polymerization and MCF-7 cancer cell growth with IC₅₀s of 0.38 μM and 15 nM, respectively^[1].

Anticancer agent 49 shows antiproliferative activity with IC₅₀s of 5, 8, 10, 10, 12 nM for KU812, LAMA84-S, LAMA84-R, KBM5-WT, KBM5-T315I cells, respectively^[1].

Anticancer agent 49 shows growth inhibition with IC₅₀s of 22, 48, 24, 303, 147, 41, 34, 153, 61, 58 nM for U343G, U87MG, T98G, SK-N-BE, SK-N-BE(2)-C, HT29, HCT116, SW480, SW620, T24 cell, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Puxeddu M, et al. Structure-activity relationship studies and in vitro and in vivo anticancer activity of novel 3-acyl-1,4-dialkylpyrroles against solid tumors and hematological malignancies. *Eur J Med Chem.* 2020 Jan 1;185:111828.

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

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