Kobusine derivative-2

Cat. No.: HY-149033

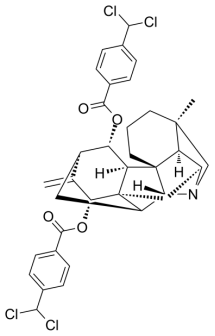
Molecular Formula: $C_{36}H_{35}Cl_4NO_4$

Molecular Weight: 687.48

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Kobusine derivative-2, a kobusine derivative, has antiproliferative activity against cancer cells. Kobusine derivative-2 can induce the arrest of MDA-MB-231 cells in the sub-G1 phase. Anticancer activity[1].

In Vitro

Kobusine derivative-2 (compound 25) (0-20 μM; 72 h) has antiproliferative activity against cancer cell lines A549, MDA-MB-231, MCF-7, KB and KB-VIN[1].

Kobusine derivative-2 (12 or 24 h; 13.3 μM) arrests MDA-MB-231 cells at the sub-G1 phase[1].

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

Cell Proliferation Assay[1]

Cell Line:	A549, MDA-MB-231, MCF-7, KB and KB-VIN
Concentration:	0-20 μM
Incubation Time:	72 h
Result:	Exhibited antiproliferative activity against cancer cell lines A549, MDA-MB-231, MCF-7, KB and KB-VIN with IC_{50}s of 4.4 μM, 4.2 μM, 4.5 μM, 4.5 μM and 4.6 μM, respectively.

Cell Cycle Analysis[1]

Cell Line:	MDA-MB-231
Concentration:	12 or 24 h
Incubation Time:	13.3 μM (3-fold of IC_{50})
Result:	Decreased numbers of cells in S and G2/M phases, resulting in accumulation of sub-G1.

REFERENCES

[1]. Koji Wada, et al. Discovery of C20-Diterpenoid Alkaloid Kobusine Derivatives Exhibiting Sub-G1 Inducing Activity. American Chemical Society. 2022

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

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