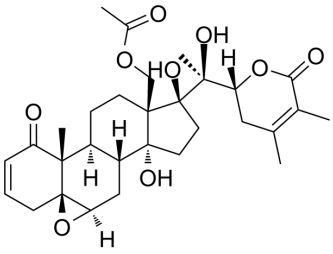
Physachenolide C

Cat. No.:	HY-152245
CAS No.:	791117-61-8
Molecular Formula:	$C_{30}H_{40}O_9$
Molecular Weight:	544.63
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Physachenolide C is a potent and selective BET inhibitor that induces apoptosis and arrests the cell cycle in the G0-G1 phase, with antitumor activity[1].
In Vitro	Physachenolide C (0.01-10 μM, 48 h) inhibits Yale University Mouse Melanoma (YUMM) cell lines YUMM2.1 and YUMMER1.7 with the IC_{50} values of 0.5159 μM and 1.8230 μM, respectively and results in a significant increase in early apoptotic cells, causing cells to stagnate in the G0-G1 phase[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Physachenolide C (20 mg/kg IT daily for 15 doses) significantly inhibits tumour growth and caused complete tumour regression in a mouse model of melanoma, with no significant toxic effects in mice. Also, tumours treated with Physachenolide C shows a significant increase in the percentage of TUNEL-positive cells (40%)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Anngela C Adams, et al. Physachenolide C induces complete regression of established murine melanoma tumors via apoptosis and cell cycle arrest. Transl Oncol. 2022 Jan;15(1):101259.

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