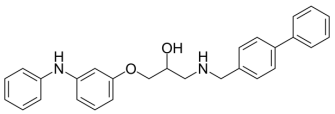
Anti-melanoma agent 1

Cat. No.:	HY-150534
CAS No.:	2418579-17-4
Molecular Formula:	$C_{28}H_{28}N_2O_2$
Molecular Weight:	424.53
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Anti-melanoma agent 1 (Compound 5m) is an anti-melanoma agent and induces cell apoptosis[1].

In Vitro

Anti-melanoma agent 1 (Compound 5m) (0-100 μM, 48 h) shows antiproliferative activity against melanoma cells[1].
Anti-melanoma agent 1 (0-10 μM) inhibits colony formation in SK-MEL-28[1].
Anti-melanoma agent 1 (1 and 2 μM) induces cell apoptosis (24 h), arrests cell cycle at G2/M phase (12 h), inhibits cell migration (48 h) and disrupts the cellular microtubule network[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	SK-MEL-5, SK-MEL-28 and A375
Concentration:	0-100 μM
Incubation Time:	48 h
Result:	Showed antiproliferative activity with IC_{50} values of 3.70 ± 0.17, 3.30 ± 0.06 and 1.98 ± 0.10 μM against SK-MEL-5, SK-MEL-28 and A375 cells, respectively.

Apoptosis Analysis[1]

Cell Line:	SK-MEL-28
Concentration:	1 μM and 2 μM
Incubation Time:	24 h
Result:	Induced cell apoptosis.

Cell Cycle Analysis[1]

Cell Line:	SK-MEL-28
Concentration:	1 μM and 2 μM
Incubation Time:	12 h

Result:	Arrested cell cycle at G2/M phase.

Cell Migration Assay [1]

Cell Line:	SK-MEL-28
Concentration:	1 μM and 2 μM
Incubation Time:	48 h
Result:	Inhibited cell migration.

REFERENCES

[1]. Chang Q, et al. Drug repurposing and rediscovery: Design, synthesis and preliminary biological evaluation of 1-arylamino-3-aryloxypropan-2-ols as anti-melanoma agents. Bioorg Med Chem. 2020 May 1;28(9):115404.

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