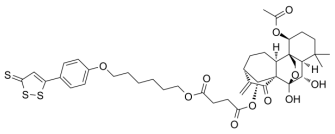
Apoptosis inducer 4

Cat. No.:	HY-146092
CAS No.:	2408050-83-7
Molecular Formula:	$C_{41}H_{50}O_{11}S_3$
Molecular Weight:	815.02
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Apoptosis inducer 4 (Compound 12b) is an apoptosis inducer with anticancer activities[1].

In Vitro

Apoptosis inducer 4 (Compound 12b) (0-50 μM, 72 h) shows antiproliferative activities against cancer cells without obvious cytotoxicity against normal cells[1].
Apoptosis inducer 4 (0-2 μM, 48 h) causes cell cycle arrest at S phase in K562 cells and G1 phase in HepG2 cells[1].
Apoptosis inducer 4 (0-4 μM, 24 and 48 h) induces pyknosis in K562 cells, and induces mitochondrial membrane potentials decline[1].
Apoptosis inducer 4 (0-2 μM, 72 h) induces apoptosis in K562 and HepG2 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	HepG2, MCF-7, HCT-116, B16, K562, L-02 and PBMC
Concentration:	0-50 μM
Incubation Time:	72 h
Result:	Showed antiproliferative activities with IC_{50} values of 2.57 ± 0.12, 16.15 ± 1.02, 5.81 ± 1.17, 12.94 ± 0.88, 0.95 ± 0.06, 17.59 ± 0.93 and >50 μM against HepG2, MCF-7, HCT-116, B16, K562, L-02 and PBMC cells, respectively.

Cell Cycle Analysis[1]

Cell Line:	K562 and HepG2 cells
Concentration:	K562 and HepG2 cells
Incubation Time:	48 h
Result:	Arrested K562 cell cycle at S phase and HepG2 cell at G1 phase.

Apoptosis Analysis[1]

Cell Line:	K562 and HepG2 cells

Concentration:	K562 and HepG2 cells
Incubation Time:	72 h
Result:	Apoptotic ratios of K562 and HepG2 cells obviously increased in a concentration-dependent manner.

REFERENCES

[1]. Li H, et al. Hydrogen sulfide releasing oridonin derivatives induce apoptosis through extrinsic and intrinsic pathways. Eur J Med Chem. 2020 Feb 1;187:111978.

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