Apoptosis inducer 12

Cat. No.: HY-149222

CAS No.: 1971096-01-1

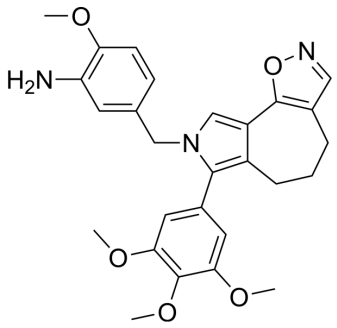
Molecular Formula: $C_{27}H_{29}N_3O_5$

Molecular Weight: 475.54

Target: Apoptosis

Pathway: Apoptosis

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



BIOLOGICAL ACTIVITY

Description

Apoptosis inducer 12 (Compound 3z) is an apoptosis inducer that induces apoptosis through the mitochondrial pathway. Apoptosis inducer 12 can be used for the research of cancer[1].

In Vitro

Apoptosis inducer 12 (Compound 3z; 72 h) shows antiproliferative activity against nine human cancer cell types (leukemia, non-small-cell lung, colon, central nervous system, melanoma, ovarian, renal, prostate and breast) with GI_{50} of 0.24-96.6 μM. leukemia and prostate cell lines are particularly responsive to treatment with Apoptosis inducer 12, with GI_{50} values of 0.30-0.65 μM and 0.43-0.84 μM, respectively[1].

Apoptosis inducer 12 (0.5-10 μM; 24 h) blocks the cell cycle in metaphase in A549, CCRF-CEM and VL51 cells[1].

Apoptosis inducer 12 (0.5-5 μM; 48 h) induces apoptosis in A549, CCRF-CEM and VL51 cells[1].

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

Cell Cycle Analysis[1]

Cell Line:	A549, CCRF-CEM and VL51
Concentration:	0.5, 1, 5 and 10 μM
Incubation Time:	24 h
Result:	Induced a block in G2/M accompanied by a strong decrease in S phase cells.

Apoptosis Analysis[1]

Cell Line:	A549, CCRF-CEM and VL51
Concentration:	0.5, 1 and 5 μM
Incubation Time:	48 h
Result:	Induced massive apoptosis in a dose-dependent manner.

REFERENCES

[1]. Barreca M, et al. Identification of pyrrolo[3',4':3,4]cyclohepta[1,2-d][1,2]oxazoles as promising new candidates for the treatment of lymphomas. Eur J Med Chem. 2023

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