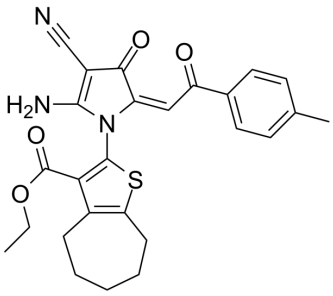
Anticancer agent 106

Cat. No.:	HY-149950
CAS No.:	3009090-13-2
Molecular Formula:	$C_{26}H_{25}N_3O_4S$
Molecular Weight:	475.56
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Anticancer agent 106 (compound 10ic) is an anticancer agent that induces apoptosis in B16-F10 melanoma cells. Anticancer agent 106 also potently inhibits metastatic nodules in a mouse model of lung metastatic melanoma. Anticancer agent 106 can be used in the study of cancer, especially lung metastatic melanoma[1].

In Vitro

Anticancer agent 106 (compound 10ic; 0.28-55 μM; 24 h) reduces the viability of B16-F10 melanoma cells in a dose-dependent manner, with an IC_{50} value of 4.8 μM[1].

Anticancer agent 106 (5-20 μM; 48 h) induces apoptosis of B16-F10 melanoma cells[1].

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

Cell Viability Assay[1]

Cell Line:	B16-F10 melanoma cells
Concentration:	0.28-55 μM
Incubation Time:	24 h
Result:	Inhibited B16-F10 melanoma cells in a dose-dependent manner (IC_{50} = 4.8 μM).

Apoptosis Analysis[1]

Cell Line:	B16-F10 melanoma cells
Concentration:	5-20 μM
Incubation Time:	48 h
Result:	Induced cell apoptosis.

In Vivo

Anticancer agent 106 (9-9.5 mg/kg; i.p.; every 3rd d for 22 d) inhibits the metastatic nodules in pulmonary metastatic melanoma mouse model[1].

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Animal Model:	B16-F10 melanoma-bearing C57BL/6 mice (pulmonary metastatic melanoma model)[1].

Dosage:	9-9.5 mg/kg
Administration:	Intraperitoneal administration; every 3rd d for 22 d.
Result:	Inhibited the lung metastases.

REFERENCES

[1]. Anna Rogova, et al. Synthesis of thieno[3,2-e]pyrrolo[1,2-a]pyrimidine derivatives and their precursors containing 2-aminothiophenes fragments as anticancer agents for therapy of pulmonary metastatic melanoma. Eur J Med Chem. 2023, 254: 115325.

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