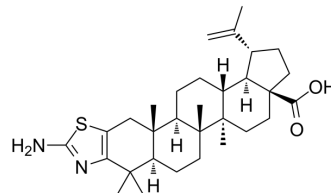


Anticancer agent 64

Cat. No.:	HY-147514
CAS No.:	2387902-92-1
Molecular Formula:	C ₃₁ H ₄₆ N ₂ O ₂ S
Molecular Weight:	510.77
Target:	Apoptosis; Caspase; PARP; Bcl-2 Family
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 64 (compound 5m) shows cytotoxic activity in CCRF-CEM cells, with IC ₅₀ of 2.4 μM. Anticancer agent 64 shows good anticancer activity through apoptosis induction. Anticancer agent 64 induces caspase 3 and 7 activation and PARP cleavage. Anticancer agent 64 induces significant effect of mitochondria depolarization ^[1] .			
IC₅₀ & Target	Caspase 3	Caspase-7	Bcl-2	Bax
	PARP			
In Vitro	Anticancer agent 64 (compound 5m) increases BAX expression and decreases Bcl-2 protein expression ^[1] . Anticancer agent 64 shows significant increase in cells accumulation in the G2/M phase of the cell cycle, while proportion of cells in S phase is reduced ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Borková L, et al. Synthesis and biological evaluation of triterpenoid thiazoles derived from betulonic acid, dihydrobetulonic acid, and ursonic acid. Eur J Med Chem. 2020 Jan 1;185:111806.

Caution: Product has not been fully validated for medical applications. For research use only.

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