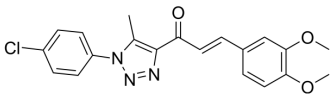
Anticancer agent 56

Cat. No.:	HY-146444
CAS No.:	2241915-59-1
Molecular Formula:	$C_{20}H_{18}ClN_3O_3$
Molecular Weight:	383.83
Target:	Apoptosis; Bcl-2 Family; Caspase; Reactive Oxygen Species
Pathway:	Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 56 (compound 4d) is a potent anti-cancer agent with agent-likeness properties, possessing anticancer activity against several cancer cell lines (IC_{50}<3 μM). Anticancer agent 56 induces cell cycle arrest at G2/M phase and triggers mitochondrial apoptosis pathway. Anticancer agent 56 acts by accumulation of ROS, up regulation of BAX, down regulation of Bcl-2 and activation of caspases 3, 7, 9[1].
IC_{50} & Target	IC_{50}: 0.64 ± 0.02 μM in Leukemia RPMI-8226, 0.96 ± 0.04 μM in Leukemia SR, 0.84 ± 0.07 μM in Leukemia K-562, 0.69 ± 0.01 μM in Melanoma M14, 0.24 ± 0.01 μM in Breast MCF7, 0.26 ± 0.01 μM in Colon HCT116, 2.95 ± 0.14 μM in Prostate PC3[1]

REFERENCES

[1]. Ashour HF, et al. 1,2,3-Triazole-Chalcone hybrids: Synthesis, in vitro cytotoxic activity and mechanistic investigation of apoptosis induction in multiple myeloma RPMI-8226. Eur J Med Chem. 2020;189:112062.

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