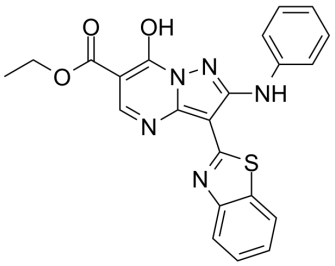
KDM1/CDK1-IN-1

Cat. No.:	HY-147901
CAS No.:	2938990-92-0
Molecular Formula:	$C_{22}H_{17}N_5O_3S$
Molecular Weight:	431.47
Target:	Histone Demethylase; CDK; Apoptosis; Caspase
Pathway:	Epigenetics; Cell Cycle/DNA Damage; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	KDM1/CDK1-IN-1 (compound 4) is a potent KDM1 and CDK1 inhibitor, with IC_{50} values of 0.096 and 0.078 μM, respectively.KDM1/CDK1-IN-1 induces cell cycle arrest at G2/M phase and apoptosis in HOP-92 cells. KDM1/CDK1-IN-1 exhibits potent cytotoxic activity against the CCRF-CEM, HOP-92 and Hep-G2 cells, with IC_{50} values of 16.34, 3.45 and 7.79 μM, respectively[1].		
IC_{50} & Target	KDM1/LSD1	CDK1 0.078 ± 2. μM (IC_{50})	Caspase-3
In Vitro	KDM1/CDK1-IN-1 (compound 4) induces apoptosis by the activation of Caspase-3[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Husseiny EM. Synthesis, cytotoxicity of some pyrazoles and pyrazolo[1,5-a]pyrimidines bearing benzothiazole moiety and investigation of their mechanism of action. Bioorg Chem. 2020 Sep;102:104053.

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