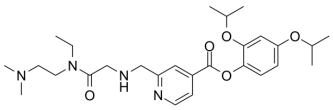
JQKD82

Cat. No.:	HY-138691
CAS No.:	2410512-38-6
Molecular Formula:	$C_{27}H_{40}N_4O_5$
Molecular Weight:	500.63
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JQKD82 (JADA82) is a cell-permeable and selective KDM5 inhibitor. JQKD82 increases H3K4me3 and can be used for the research of multiple myeloma[1].
IC_{50} & Target	KDM5
In Vitro	JQKD82 (0.3 μM; 24 hours) causes an increase in the global H3K4me3 level of MM.1S cells[1]. JQKD82 (0.1-10 μM; day 1-day 5) inhibits the growth of MM.1S cells in a dose- and time-dependent manner. JQKD82 is potent at eliciting growth suppression in MM.1S cells (IC_{50}=0.42 μM)[1]. JQKD82 (1 μM; 24 hours) induces G1 cell-cycle arrest by 48 hours in MM.1S and MOLP-8 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	JQKD82 (50-75 mg/kg; i.p.; twice a day for 3 weeks) has anti-multiple myeloma activity[1]. JQKD82 displays an increase in H3K4me3 levels and results in a dramatic reduction of MYC immuno-staining in vivo[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Six-week-old female NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ (NSG) mice (bearing MOLP-8 TurboGFP-Luc cells)[1]
Dosage:	50 mg/kg, 75 mg/kg
Administration:	i.p.; twice a day for 3 weeks
Result:	Significantly reduced tumor burden.

REFERENCES

[1]. Jun Qi, et al. Histone demethylase 5 inhibitors and uses thereof. WO2020033377A1.

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

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