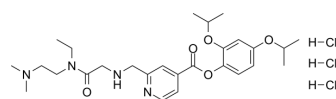


JQKD82 trihydrochloride

Cat. No.:	HY-138691A
CAS No.:	2863676-87-1
Molecular Formula:	C ₂₇ H ₄₃ Cl ₃ N ₄ O ₅
Molecular Weight:	610.01
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (81.97 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.6393 mL	8.1966 mL	16.3932 mL
		5 mM	0.3279 mL	1.6393 mL	3.2786 mL
	10 mM	0.1639 mL	0.8197 mL	1.6393 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (1.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (1.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (1.64 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	JQKD82 (JADA82) trihydrochloride is a cell-permeable and selective KDM5 inhibitor. JQKD82 trihydrochloride increases H3K4me3 and can be used for the research of multiple myeloma ^[1] .
IC₅₀ & Target	KDM5
In Vitro	<p>JQKD82 (0.3 μM; 24 hours) trihydrochloride causes an increase in the global H3K4me3 level of MM.1S cells^[1].</p> <p>?JQKD82 (0.1-10 μM; day 1-day 5) trihydrochloride inhibits the growth of MM.1S cells in a dose- and time-dependent manner.</p> <p>JQKD82 trihydrochloride is potent at eliciting growth suppression in MM.1S cells (IC₅₀=0.42 μM)^[1].</p> <p>?JQKD82 (1 μM; 24 hours) trihydrochloride induces G1 cell-cycle arrest by 48 hours in MM.1S and MOLP-8 cells^[1].</p>

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) trihydrochloride has anti-multiple myeloma activity^[1].
?JQKD82 trihydrochloride displays an increase in H3K4me3 levels and results in a dramatic reduction of MYC immunostaining 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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