GSK 690 Hydrochloride

Cat. No.: HY-117226A

CAS No.: 2436760-79-9

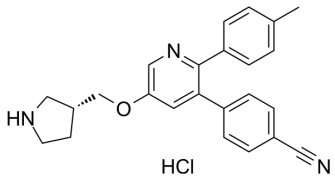
Molecular Formula: $C_{24}H_{24}ClN_3O$

Molecular Weight: 405.92

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 : 125 mg/mL (307.94 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4635 mL	12.3177 mL	24.6354 mL
	5 mM	0.4927 mL	2.4635 mL	4.9271 mL
	10 mM	0.2464 mL	1.2318 mL	2.4635 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.12 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.12 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GSK 690 (Hydrochloride) is a reversible inhibitor of lysine specific demethylase 1 (LSD1), with a K_d value of 9 nM and a biochemical IC_{50} of 37 nM.

IC_{50} & Target

KDM1/LSD1

In Vitro

GSK690 (1-10 μM) acts together with JNJ-26481585 to induce cell death in all four tested RMS cells lines (RD, RH30, RMS13, and TE381.T cells)[2].
GSK690/JNJ-26481585 cotreatment alters the balance between pro- and antiapoptotic proteins with 1 μM GSK690 for RD cells and 10 μM GSK690 for RH30 cells[2].

GSK690/JNJ-26481585 cotreatment induces caspase-dependent cell death with 1 μM GSK690 for RD cells and 10 μM GSK690 for RH30 cells[2].
The addition of GSK690 further enhances the JNJ-26481585-stimulated G2/M arrest [2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Oncogene. 2021 Apr;40(15):2711-2724.

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REFERENCES

[1]. Mould DP, et al. Development of (4-Cyanophenyl)glycine Derivatives as Reversible Inhibitors of Lysine Specific Demethylase 1. J Med Chem. 2017 Oct 12;60(19):7984-7999.

[2]. Haydn T, et al. Concomitant epigenetic targeting of LSD1 and HDAC synergistically induces mitochondrial apoptosis in rhabdomyosarcoma cells. Cell Death Dis. 2017 Jun 15;8(6):e2879.

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