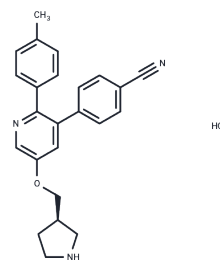


GSK 690 Hydrochloride

Chemical Properties

CAS No. :	2436760-79-9
Formula:	C ₂₄ H ₂₄ ClN ₃ O
Molecular Weight:	405.92
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	GSK 690 (Hydrochloride) is a reversible lysine-specific demethylase 1 (LSD1) inhibitor with a K _d of 9 nM and an IC ₅₀ of 37 nM.
Targets(IC ₅₀)	Histone Demethylase
In vitro	GSK690 (1-10 μM) synergizes with JNJ-26481585 to promote cell death across four RMS cell lines (RD, RH30, RMS13, and TE381.T cells), impacting the equilibrium of pro- and antiapoptotic proteins at 1 μM for RD cells and at 10 μM for RH30 cells. This combined treatment triggers caspase-dependent apoptosis at these same concentrations for RD and RH30 cells, respectively, and amplifies JNJ-26481585-induced G2/M phase arrest.

Solubility Information

Solubility	DMSO: 125 mg/mL (307.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (8.13 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0493 mL	0.2464 mL	0.4927 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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