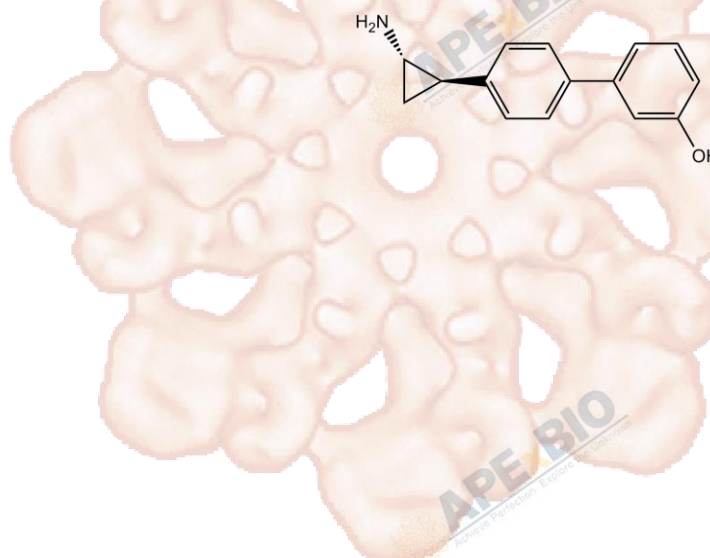


Product Data Sheet

OG-L002

Cat. No.:	B1580
CAS No.:	1357302-64-7
Formula:	C ₁₅ H ₁₅ NO
M.Wt:	225.29
Synonyms:	
Target:	Chromatin/Epigenetics
Pathway:	Histone Demethylases
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥22.5 mg/mL in DMSO; ≥6.82 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
		1 mM	4.4387 mL	22.1936 mL	44.3872 mL
		5 mM	0.8877 mL	4.4387 mL	8.8774 mL
		10 mM	0.4439 mL	2.2194 mL	4.4387 mL

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

Biological Activity

Shortsummary

LSD1 inhibitor,potent and specific

IC₅₀ & Target

20 nM (LSD1)

In Vitro

Cell Viability Assay

Cell Line:	HeLa, HFF cells, MRC-5 cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	50 μM for 12 hr;

	Applications:	OG-L002 inhibited HSV IE gene expression and progeny virus production in both HeLa and HFF cells.
In Vivo	Animal experiment	
	Animal models:	Mouse ganglion explant model
	Dosage form:	2 to 40 mg/kg /day; intraperitoneal administration for 15-17 days
	Applications:	OG-L002 repressed herpes simplex virus (HSV) primary infection in vivo.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

1Liang, Y., Quenelle, D., Vogel, J. L., Mascaro, C., Ortega, A. and Kristie, T. M. (2013) A novel selective LSD1/KDM1A inhibitor epigenetically blocks herpes simplex virus lytic replication and reactivation from latency. MBio. 4, e00558-00512

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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