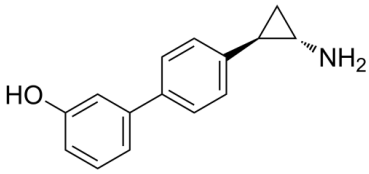
Data Sheet

Product Name:	OG-L002
Cat. No.:	CS-0015247
CAS No.:	1357302-64-7
Molecular Formula:	$C_{15}H_{15}NO$
Molecular Weight:	225.29
Target:	Histone Demethylase; HSV; Monoamine Oxidase
Pathway:	Anti-infection; Epigenetics; Neuronal Signaling
Solubility:	DMSO : 250 mg/mL (1109.68 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

OG-L002 is a potent and highly selective **LSD1** inhibitor with an **IC_{50}** of 0.02 μM. OG-L002 is a potent **monoamine oxidases (MAO)** inhibitor with **IC_{50}**s of 1.38 μM and 0.72 μM for MAO-A and MAO-B, respectively. OG-L002 potently inhibits the expression of **HSV IE** genes[1]. IC50 & Target: IC50: 0.02 μM (LSD1), 1.38 μM (MAO-A), 0.72 μM (MAO-B), HSV IE[1] ***In Vitro:*** OG-L002 inhibits viral IE gene expression in both cells with a significantly reduced IC_{50} (IC_{50}: ~10 μM in HeLa cells; IC_{50}: ~3 μM in HFF cells) relative to the control MAOI TCP (IC_{50}: ~1 mM)[1]. ***In Vivo:*** OG-L002 (i.p.; 6-40 mg/kg; daily; for 7 days) reduces the levels of detectable viral genomes in the ganglia in a dose-dependent manner at both 3 and 5 days postinfection[1].

References:

[1]. Liang Y, et al. A novel selective LSD1/KDM1A inhibitor epigenetically blocks herpes simplex virus lytic replication and reactivation from latency. mBio. 2013 Feb 5;4(1):e00558-12.

CAIndexNames:

[1,1'-Biphenyl]-3-ol, 4'-[(1R,2S)-2-aminocyclopropyl]-

SMILES:

OC1=CC(C2=CC=C([C@@H]3[C@@H](N)C3)C=C2)=CC=C1

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

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