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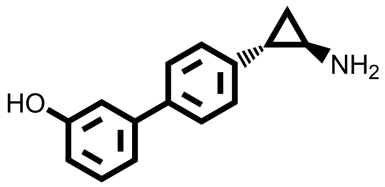
LSD1 Inhibitor – OG-L002

Chemical Name: 4'-((1S,2R)-2-aminocyclopropyl)-[1,1'-biphenyl]-3-ol



Molecular Weight:	225.29
Formula:	$C_{15}H_{15}NO$
Purity:	≥98%
CAS#:	1357302-64-7
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

OG-L002 is a highly potent and specific inhibitor of Lysine Specific Demethylase-1 (LSD1). It inhibits LSD1 in biochemical assay with an IC_{50} ~20 nM, and has moderate inhibitory activity against monoamine oxidases MAO-A and MAO-B with IC_{50} ~1.38 μM and 0.72μM respectively. It potently repressed herpes simplex virus (HSV) IE gene expression, genome replication, and reactivation from latency. OG-L002 suppressed primary lytic infection of HSV in vivo in a mouse model.

How to Use:

In vitro: OG-L002 was used at 1 μM in vitro.

In vivo: OG-L002 was administered by intraperitoneal injection once a day at a dose of 20-40 mg/kg to the primary infection mouse model.

Reference:

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