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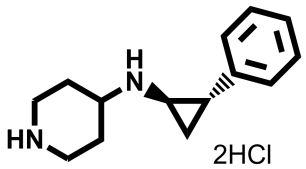
LSD1 Inhibitor – GSK-LSD1

Chemical Name: N-((1R,2S)-2-phenylcyclopropyl)piperidin-4-amine HCl salt



Molecular Weight:	289.24
Formula:	$C_{14}H_{22}Cl_2N_2$
Purity:	≥98%
CAS#:	n/a
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

GSK-LSD1 is a highly potent, specific and irreversible inhibitor of Lysine Specific Demethylase-1 (LSD1). It inhibits LSD1 in biochemical assay with an IC_{50} ~16 nM, and is > 1000 fold selective over other closely related FAD utilizing enzymes (i.e. LSD2, MAO-A, MAO-B). GSK-LSD1 induces gene expression changes in cancer cell lines (average EC50 < 5 nM) and inhibits cancer cell line growth (average EC50 < 5 nM).

How to Use:

In vitro: GSK-LSD1 was used at 1 μM in vitro.

In vivo: n/a

Reference:

1. http://www.thesgc.org/chemical-probes/epigenetics