Product Data Sheet

Product Name: GSK-LSD1 2HCl
Cat. No.: GC15368

Chemical Properties

Cas. No.	1431368-48-7		
Chemical Name	N-((1R,2S)-2-phenylcyclopropyl)piperidin-4-amine		
SMILES	C1(N[C@@H]2C[C@H]2C3=CC=CC=C3)CCNCC1		
Formula	$C_{14}H_{22}Cl_2N_2$	M.Wt	289.24
Solubility	≥ 11.55mg/mL in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	GSK-LSD1 2HCl		

Background

GSK-LSD1 2HCl is a selective inhibitor of LSD1 with IC50 value of 16 nM [1].

Lysine (K) -specific demethylase 1A (LSD1) is a flavin-dependent histone demethylase that demethylates mono- and di-methylated lysines and plays an important role in oocyte growth, embryogenesis and tissue-specific differentiation. LSD1 plays a role in acute myeloid leukemia (AML).

GSK-LSD1 2HCl irreversibly inhibited LSD1 with IC50 value of 16 nM and is > 1000 fold selective over LSD2, MAO-A and MAO-B, which were related to FAD utilizing enzymes. In cancer cell lines, GSK-LSD1 2HCl changed gene expression with average EC50 value < 5 nM and inhibited cells growth with average EC50 value < 5 nM. GSK-LSD1 2HCl (10 ?M) inhibited human recombinant dopamine transporter, 5-HT1A and 5-HT transporter by 39%, 49% and 74%, respectively. And no activity against other 55 recombinant receptors (GPCR, transporters, ion channels). GSK-LSD1 2HCl can be used as a chemical probe and a part of the SGC epigenetics [1].

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Reference:
[1]. Structural Genomics Consortium.
http://www. thesgc.org/chemical-probes/LSD1.

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Address: 10292 Central Ave. #205, Montclair, CA, USA