Product Data Sheet

Product Name: Tranylcypromine (2-PCPA) HCl
Cat. No.: GC11576

Chemical Properties

Cas. No.	4548-34-9		
Chemical Name	(1S,2R)-2-phenylcyclopropan-1-amine;hydrochloride		
SMILES	C1C(C1N)C2=CC=CC=C2.Cl		
Formula	$C_9H_{11}N.HCl$	M.Wt	169.65
Solubility	Soluble 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	Tranylcypromine (2-PCPA) HCl		

Background

Tranylcypromine, also known as 2-PCPA, is a monoamine oxidase inhibitor (MAOI) that irreversibly inhibits MAO A and MAO B with the inhibition constant Ki values of 101.9 μM and 16 μM and the half maximal inhibition concentration IC50 values of 2.3 μM and 0.95 μM respectively [1].

Tranylcypromine has also been found to potently and irreversibly inhibit histone demethylase lysine-specific demethylase 1 (LSD1), which is an amine oxidase homologue of MAO sharing similarities in the catalytic site with MAO A and B, in a time dependent and mechanism based manner with Ki and IC50 values of 242 μM and 20.7 μM respectively [1].

Reference

References:
[1] Schmidt DM, McCafferty DG. trans-2-Phenylcyclopropylamine is a mechanism-based

inactivator of the histone demethylase LSD1. Biochemistry. 2007 Apr 10;46(14):4408-16. Epub 2007 Mar 17.

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