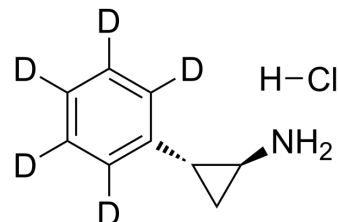


(1S,2R)-Tranlycypromine-d₅ hydrochloride

Cat. No.:	HY-17447AS
Molecular Formula:	C ₉ H ₇ D ₅ ClN
Molecular Weight:	174.68
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(1S,2R)-Tranlycypromine-d ₅ (hydrochloride) is the deuterium labeled Tranlycypromine hydrochloride[1]. Tranlycypromine hydrochloride (SKF 385 hydrochloride) is an irreversible inhibitor of lysine-specific demethylase 1 (LSD1/BHC110) and monoamine oxidase (MAO). Tranlycypromine hydrochloride inhibits LSD1, MAO A and MAO B with IC50s of 20.7, 2.3 and 0.95 μM, respectively. Tranlycypromine hydrochloride can be used for the research of depression[2][3][4].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Lee MG, et al. Histone H3 lysine 4 demethylation is a target of nonselective antidepressive medications. *Chem Biol*. 2006 Jun;13(6):563-7.
- [3]. 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.
- [4]. Park H, et al. The MAO Inhibitor Tranlycypromine Alters LPS- and Aβ-Mediated Neuroinflammatory Responses in Wild-type Mice and a Mouse Model of AD. *Cells*. 2020 Aug 28;9(9):1982.

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

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