

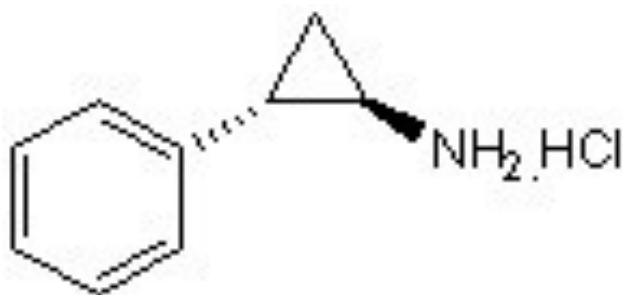
Cat No. 65-L28

## Tranlylcypromine

50mg

Tranlylcypromine hydrochloride, also known as 2-PCPA, is an irreversible inhibitor of lysine-specific demethylase 1 (LSD1/BHC110), a histone demethylase, and non-hydrazone monoamine oxidases (MAO). Histones contain unstructured N-terminal residues that are the site of numerous post-translational modifications, involving acetylation, ubiquitination, methylation, and sumoylation to produce a specific gene regulatory outcome. Complementary enzymes catalyze the addition and removal of these modifications as needed. The amine oxidase domain-containing enzyme lysine-specific demethylase 1 (LSD1) is a part of one of two classes of histone demethylases capable of demethylating lysine

### TECHNICAL INFORMATION



**Other Names:** (1R, 2S)-rel-2-phenylcyclopropanamine, monohydrochloride

**Chemical Formula:** C<sub>9</sub>H<sub>11</sub>N·HCl

**CAS Number:** 1986-47-6

**PubChem Substance ID:** 2723716

**Molecular Weight:** 169.65

**Purity:** >98%

**Appearance:** Crystalline Solid

**Solubility:** DMSO

**IC<sub>50</sub> :** MAO A: 2.3µM MAO: .95µM



For research purposes only

### STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

### PRODUCT USE

Soluble in DMSO.

### REFERENCES

1. Quante, A., et al (2012). Tranlylcypromine and bupropion combination therapy in treatment-resistant major depression: a report of 2 cases. *J Clin Psychopharmacol.* 4:572-4.
2. Ribback, S., et al (2012). Effects of amitriptyline, fluoxetine, tranlylcypromine and venlafaxine on rat vascular smooth muscle in vitro - the role of the endothelium. *J Physiol Pharmacol.* 63:119-25.
3. Assaren, N., et al (2012). The effects of chronic administration of tranlylcypromine and rimonabant on behavior and protein expression in brain regions of the rat. *Pharmacol Biochem Behav.* 100:506-12.