

Tranylcypromine (hemisulfate)

Catalog No: tcsc5161



Available Sizes

Size: 100mg

Specifications

CAS No:

13492-01-8

Formula:

C₉H₁₂NO₂S₀.5

Pathway: Epigenetics;Neuronal Signaling

Target:

Histone Demethylase;Monoamine Oxidase

Purity / Grade:

>98%

Solubility:

H2O : 46.66 mg/mL (256.05 mM; Need ultrasonic)

Alternative Names:

dl-Tranylcypromine hemisulfate;trans-2-Phenylcyclopropylamine hemisulfate salt

Observed Molecular Weight:

182.23

Product Description

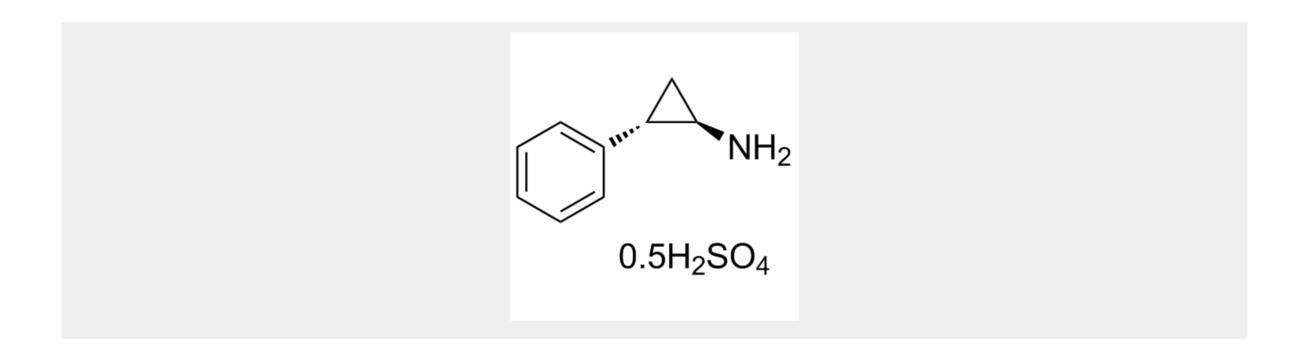
Tranylcypromine hemisulfate, an **LSD1** inhibitor, and also an irreversible, nonselective **MAO** inhibitor, is used in the treatment of depression.

In Vitro: Tranylcypromine (10 nM to 10 μ M) exerts neuroprotective effects against toxicity induced by human A β (1-42) oligomers independently from the presence of glial cells^[1]. Tranylcypromine (100 μ M) significantly protects RGCs from glutamate neurotoxicity-



induced apoptosis as well as apoptosis induced by oxidative stress. Tranylcypromine promotes mitogen-activated protein kinase 12 (p38 MAPKγ) expression under conditions of glutamate (Glu)-induced stress. Besides, tranylcypromine contributes to RGC survival via alterations of p38 MAPKγ activity^[3].

In Vivo: Tranylcypromine treatment significantly and substantially reduces the lesion size and improves generalized hyperalgesia in a dose-dependent fashion in mice with induced endometriosis. In addition, tranylcypromine treatment results in reduced immunoreactivity to biomarkers of proliferation, angiogenesis, and H3K4 methylation, leading to arrested EMT and lesion growth^[2]. Tranylcypromine (500 mM) injection exerts neuroprotective effects within intracellular apoptotic signaling pathways and suppresses morphologic changes in the retina of the rat, suppresses caspase 3 activity and recovers p38 MAPK γ expression in the retina after NMDA-induced injury, and enhances RGC survival after retinal injury via the attenuation of NMDA neurotoxicity^[3]. Tranylcypromine (10 µg/g) causes an approximate and significant doubling of labeled cells in the combined brain regions examined, as detected by BrdU immunohistochemistry. Tranylcypromine causes the greatest increase in cell proliferation in the cerebellum^[4].



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