

MHP 133

Catalog No: tcsc6809



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 20mg



Specifications

CAS No:

147340-43-0

Formula:

$C_{17}H_{20}ClN_5O_3$

Pathway:

Neuronal Signaling;GPCR/G Protein;Neuronal Signaling;Neuronal Signaling;GPCR/G Protein

Target:

mAChR;mAChR;AChE;5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

377.83

Product Description

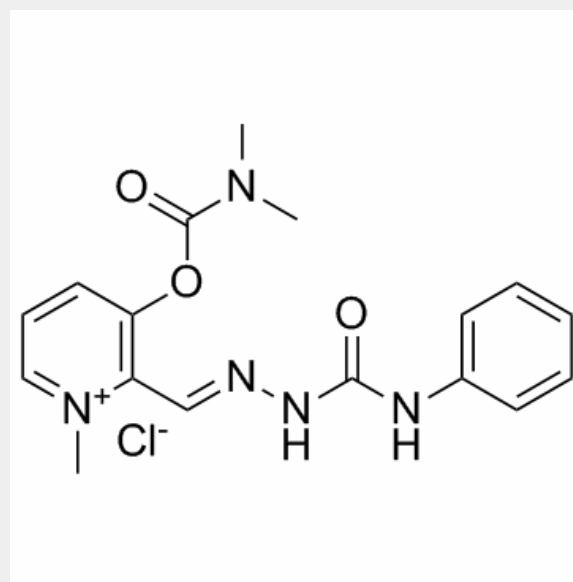
HY-101653 is a drug with multiple CNS targets, and inhibits acetylcholinesterase (AChE) with K_i of 69 μ M; also active against

muscarinic M1 and M2 receptors, serotonin 5HT4 receptors, and imidazole I2 receptors.

IC50 & Target: Ki: 69 μ M (AChE)^[1]

In Vitro: MHP-133 is be active (>50% displacement or activity) against muscarinic M1 and M2 receptors, serotonin 5HT4 receptors, and imidazole I2 receptors. MHP-133 exhibits this nicotinic-like activity in the cell line. Although the ED₅₀ for inducing TrkA expression is only about 1 μ M, it does predicts the cytoprotective action of MHP-133 in differentiated PC-12 cells deprived of growth factor for 24 h. MHP-133 (10-100 μ M) significantly increases the levels of sAPP from cultured astrocytes by 40-60%. MHP-133 produces a bi-phasic effect on slice survival, particularly in the dentate gyrus and the CA1 regions^[1].

In Vivo: In rats, MHP-133 (50, 100, or 200 μ g/kg, i.p.) enhances acquisition of the task and increases task accuracy. MHP-133 elicits significant improvements in task accuracies during sessions initiated 10 min after dosing^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!