

Adiphenine (hydrochloride)

Catalog No: tcsc2449



Available Sizes

Size: 100mg



Specifications

CAS No:

50-42-0

Formula:

$C_{20}H_{26}ClNO_2$

Pathway:

Neuronal Signaling; Membrane Transporter/Ion Channel

Target:

nAChR; nAChR

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

347.88

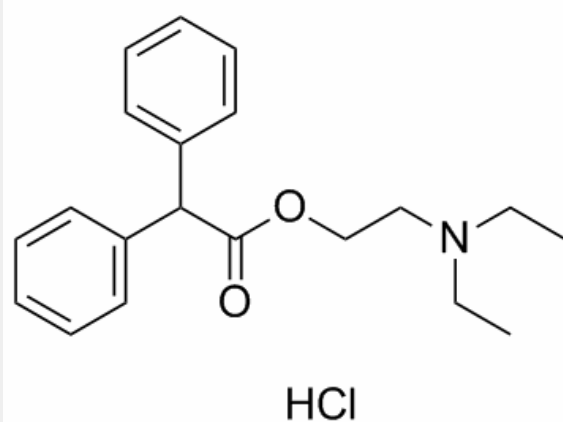
Product Description

Adiphenine HCl is a nicotinic receptor inhibitor, used as an antispasmodic drug.

Target: nAChR

Adiphenine decreased the frequency of ACh-induced single-channel currents. Adiphenine decreased cluster duration (36-fold at 100 micromol/L (-1)). Adiphenine did not change amplitude but increased the decay rate (IC(50)= 15 micromol/L (-1)) [1]. Adiphenine was administered in ³H-labelled form in doses of 15 u.mole/kg intravenously to male Wistar rats. Plasma and brain levels of the unchanged drug were measured [1]. The elimination of the ³H-labelled compound from the plasma was monophasic with a half-life

of 13 minutes. The unchanged drug was detectable in the plasma for 30 minutes after the injection. The time course of brain levels of unchanged drug paralleled that found in the plasma with a half-life of 9 to 12 minutes. In all experiments, brain and plasma levels of unchanged adiphenine correlate highly [2].



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