Product Data Sheet

Product Name: MPTP hydrochloride
CAS No.: 23007-85-4
Cat. No.: HY-15608
MWT: 209.72
Formula: C12H16ClN
Purity: >98%

Solubility: 25°C: DMSO

Mechanisms:
Pathways: Others; Target: Others

Biological Activity:
MPTP HCl induced reduction in the DOPAC HVA/dopamine (DA) ratio and increase in striatal ascorbate (AS) oxidation in rats
IC50 Value: 53uM (inhibited the nerve-evoked twitches of phrenic nerve-hemidiaphragm preparations from ICR mice).
Target:
MPTP HCl induced reduction in the DOPAC HVA/dopamine (DA) ratio and increase in striatal ascorbate (AS) oxidation in rats [1].
in vitro: MPTP inhibited the nerve-evoked twitches of phrenic nerve-hemidiaphragm preparations from ICR mice (20-30 g). PP 50 uM, but not PA 50 uM or TP 50 uM, potentiated the inhibitory effect of MPTP. PP 100 uM itself had an inhibitory action on twitch amplitude. The IC50 values for twitch inhibition by MPTP, TC and PP were 53, 0.7 and 123 uM, respectively. Pretreatment with PP 50 uM reduced the IC50 values of MPTP and TC to 18 and 0.3 uM, respectively [2].
in vivo: MPTP was examined in 12 squirrel ...

References:

Caution: Not fully tested. For research purposes only
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