

For Research Use Only
MPTP hydrochloride

Catalog Number: CM01173

产品信息

Catalog Number:
CM01173

CAS号:
23007-85-4

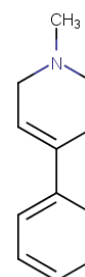
分子式:
C₁₂H₁₆ClN

主要靶点:
Apoptosis|Dopamine Receptor

主要通路:
G蛋白偶联受体|凋亡|神经科学

分子量:
209.72

溶解度:
DMSO:12 mg/mL,H₂O:10mg/mL



HCl

体外活性

Pretreatment with 50 mM 4-phenylpyridine, reduces IC₅₀ (concentration for 50% inhibition of twitch amplitude) values of MPTP from 53 to 18 mM and d-tubocurarine from 0.7 to 0.3 mM, respectively, in mouse phrenic nerve-diaphragm[3].

体内活性

The toxic effect of MPTP can be completely abolished in vivo by treatment with a monoamine oxidase inhibitor and potentiated by an inhibitor of catechol-O-methyltransferase[1]. Allopurinol potentiated the MPTP (35 mg/kg)-induced decrease in the DOPAC+HVA/DA ratio and increase in striatal AA oxidation of the rat[2]. Gas1 expressions are significantly elevated in the majority of the reactive astrocytes of the brains with LPS or MPTP insults in animal models[4].

描述

MPTP-hydrochloride is a precursor of MPP⁺ which is toxic to dopaminergic neurons and causes Parkinsonism.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years