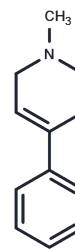


## MPTP

## Chemical Properties

CAS No. :	28289-54-5
Formula:	C <sub>12</sub> H <sub>15</sub> N
Molecular Weight:	173.254
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MPTP (1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine) is a dopamine neurotoxin capable of crossing the blood-brain barrier, often employed to induce models of Parkinson's syndrome. As a precursor to MPP+, MPTP can trigger apoptosis (apoptosis).
Targets(IC50)	Apoptosis,Dopamine Receptor
In vitro	50 mM 4-Phenylpyridine pretreatment reduces the IC50 of MPTP, the concentration required for 50% inhibition of twitch amplitude, from 53 mM to 18 mM in mouse phrenic nerve-diaphragm. Additionally, it decreases the IC50 value of d-tubocurarine from 0.7 mM to 0.3 mM.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.772 mL	28.860 mL	57.7201 mL
5 mM	1.1544 mL	5.772 mL	11.544 mL
10 mM	0.5772 mL	2.886 mL	5.772 mL
50 mM	0.1154 mL	0.5772 mL	1.1544 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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