

Amantadine (hydrochloride)

Catalog No: tcsc2502



Available Sizes

Size: 5g

Size: 10g

Size: 50g



Specifications

CAS No:

665-66-7

Formula:

$C_{10}H_{18}ClN$

Pathway:

Anti-infection

Target:

Influenza Virus

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 50 mg/mL (266.37 mM); DMSO : 100 mg/mL (532.74 mM; Need ultrasonic)

Alternative Names:

1-Adamantanamine hydrochloride;1-Adamantylamine hydrochloride;1-Aminoadamantane hydrochloride

Observed Molecular Weight:

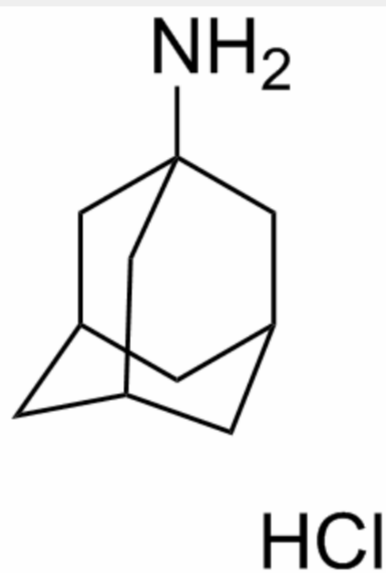
187.71

Product Description

Amantadine Hydrochloride is an antiviral and an antiparkinsonian drug.

Target: Influenza Virus

Amantadine is an antiviral that is used in the prophylactic or symptomatic treatment of influenza A. It is also used as an antiparkinsonian agent, to treat extrapyramidal reactions, and for postherpetic neuralgia. Amantadine binding of M2, based on studies of a peptide representing the M2 transmembrane segment in dodecylphosphocholine micelles. Amantadine competes with protons for binding to the deprotonated tetramer, thereby stabilizing the tetramer in a slightly altered conformation. This model accounts for the observed inhibition of proton flux by amantadine [1]. In contrast to most other described channel-blocking molecules, amantadine causes the channel gate of NMDA receptors to close more quickly. Amantadine binding inhibits current flow through NMDA receptor channels but show that its main inhibitory action at pharmaceutically relevant concentrations results from stabilization of closed states of the channel [2].



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