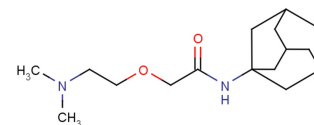


## Tromantadine

## Chemical Properties

CAS No.:	53783-83-8
Formula:	C <sub>16</sub> H <sub>28</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	280.41
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Tromantadine is an amantadine derivative with antiherpetic activity (inhibits HSV-1 and HSV-2 replication).
Targets(IC <sub>50</sub> )	HSV-1: None
In vitro	Herpes simplex virus type 1 (KOS strain)-induced cytopathic effect inhibited by Tromantadine. Vero and HEp-2 cells tolerate up to 2 mg of Tromantadine per 2x10 <sup>6</sup> cells for 24-, 48-, or 96-h incubation periods with little change in cell morphology. Treatment of the cells with 10 to 50 µg of Tromantadine reduces herpes simplex virus-induced cytopathic effect. Treatment with 100 to 500 µg of Tromantadine inhibits herpes simplex virus-induced cytopathic effect and reduces virus production. Complete inhibition of virus production is observed with treatments of 500 µg to 1 mg. The antiherpetic activity of Tromantadine is dependent upon the viral inoculum size and the time of addition of the compound with respect to infection. Virion synthesis and viral polypeptide synthesis are inhibited by addition of Tromantadine at the time of infection or 4 h postinfection[1].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.566 mL	17.831 mL	35.662 mL
5 mM	0.713 mL	3.566 mL	7.132 mL
10 mM	0.357 mL	1.783 mL	3.566 mL
50 mM	0.071 mL	0.357 mL	0.713 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Rosenthal KS, et al. Tromantadine: inhibitor of early and late events in herpes simplex virus replication. Antimicrob Agents Chemother. 1982 Dec;22(6):1031-6.
2. Cheetham JJ, et al. Comparison of the interaction of the anti-viral chemotherapeutic agents amantadine and tromantadine with model phospholipid membranes. Biosci Rep. 1987 Mar;7(3):225-30.

Inhibitors · Natural Compounds · Compound Libraries

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