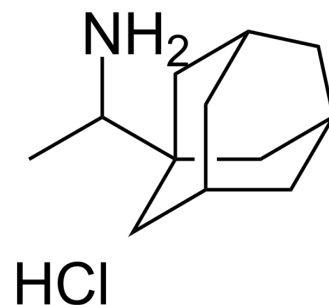


## Rimantadine hydrochloride

Cat. No.:	HY-B0338A
CAS No.:	1501-84-4
Molecular Formula:	C <sub>12</sub> H <sub>22</sub> ClN
Molecular Weight:	215.76
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (231.74 mM; Need ultrasonic)  
H<sub>2</sub>O : 33.33 mg/mL (154.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	4.6348 mL	23.1739 mL
	5 mM	0.9270 mL	4.6348 mL	9.2696 mL	
	10 mM	0.4635 mL	2.3174 mL	4.6348 mL	

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 33.33 mg/mL (154.48 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (11.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (11.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (11.59 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Rimantadine hydrochloride is an anti-influenza virus drug. Target: Influenza Virus. Rimantadine hydrochloride are oral antiviral drugs useful in the prophylaxis and treatment of influenza A virus infections. rimantadine has prophylactic efficacy comparable to amantadine but lower potential for causing adverse effects [1]. double-blind study of children with influenza-like illness. 37 received rimantadine for five days. Of the total 37 children in the rimantadine group, 27% were found to have resistant isolated compared with 6% in the total group receiving acetaminophen (P < .04). Furthermore, the mean inhibitory concentration of rimantadine increased with time in the rimantadine group (r = .4, P = .002) [2].

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## REFERENCES

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- [1]. Hall, C.B., et al., Children with influenza A infection: treatment with rimantadine. *Pediatrics*, 1987. 80(2): p. 275-82.
- [2]. Tominack, R.L. and F.G. Hayden, Rimantadine hydrochloride and amantadine hydrochloride use in influenza A virus infections. *Infect Dis Clin North Am*, 1987. 1(2): p. 459-78.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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