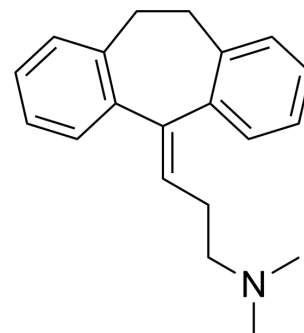


Amitriptyline

Cat. No.:	HY-B0527
CAS No.:	50-48-6
Molecular Formula:	C ₂₀ H ₂₃ N
Molecular Weight:	277.4
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (360.49 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.6049 mL	18.0245 mL	36.0490 mL
			5 mM	0.7210 mL	3.6049 mL	7.2098 mL
			10 mM	0.3605 mL	1.8025 mL	3.6049 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.01 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.01 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.01 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Amitriptyline is a common oral anticholinergic. Amitriptyline has anticholinergic properties. Amitriptyline can be used to quantify anticholinergic adverse reactions in patients taking amitriptyline and placebo ^[1] .
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CUSTOMER VALIDATION

- J Med Virol. 2022 Nov 1.

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- Cell Commun Signal. 2023 May 25;21(1):123.
 - PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.

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REFERENCES

[1]. BrueckleMS, et al. Amitriptyline's anticholinergic adverse drug reactions-A systematic multiple-indication review and meta-analysis. PLoS One. 2023 Apr 5;18(4):e0284168.

Caution: Product has not been fully validated for medical applications. For research use only.

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