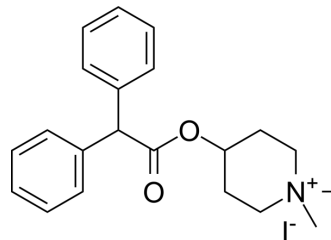


4-DAMP

Cat. No.:	HY-100958
CAS No.:	1952-15-4
Molecular Formula:	C ₂₁ H ₂₆ INO ₂
Molecular Weight:	451.34
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (221.56 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.2156 mL	11.0781 mL	22.1562 mL
		5 mM		0.4431 mL	2.2156 mL	4.4312 mL
	10 mM		0.2216 mL	1.1078 mL	2.2156 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: ≥ 5 mg/mL (11.08 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (11.08 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	4-DAMP is a potent antagonist of M3 receptor and also has a high affinity for the closely-related M5 receptor ^[1] .	
IC₅₀ & Target	mAChR3	mAChR5

REFERENCES

[1]. Watson N, et al. Comparative pharmacology of recombinant human M3 and M5 muscarinic receptors expressed in CHO-K1 cells. Br J Pharmacol. 1999 May;127(2):590-6.

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

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