Meclofenoxate hydrochloride

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-17555 3685-84-5 C ₁₂ H ₁₇ Cl ₂ NO ₃ 294.17 nAChR; iGluR Membrane Transporter/Ion Channel; Neuronal Signaling	CI	
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 (169.97 mM) H ₂ O : 33.33 mg/mL (113.30 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.3994 mL	16.9970 mL	33.9939 mL	
		5 mM	0.6799 mL	3.3994 mL	6.7988 mL	
		10 mM	0.3399 mL	1.6997 mL	3.3994 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent Solubility: 100 mg	one by one: PBS g/mL (339.94 mM); Clear solution; Net	ed ultrasonic			

BIOLOGICAL ACTIVITY				
Description	Meclofenoxate hydrochloride is an ester synthesized from DMAE and pCPA, which has the activity of stimulating memory and improving cognition.			

REFERENCES

[1]. Mosharrof AH, et al. Effects of meclofenoxate and citicholine on learning and memory in aged rats. Acta Physiol Pharmacol Bulg. 1987;13(4):17-24.

[2]. Marcer D, et al. The differential effects of meclofenoxate on memory loss in the elderly. Age Ageing. 1977 May;6(2):123-31.

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

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