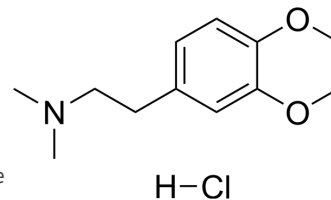


Verapamil EP Impurity C hydrochloride

Cat. No.:	HY-136589
CAS No.:	51012-67-0
Molecular Formula:	C ₁₂ H ₂₀ ClNO ₂
Molecular Weight:	245.75
Target:	Calcium Channel; P-glycoprotein; Cytochrome P450
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
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 : 62.5 mg/mL (254.32 mM); ultrasonic and warming and heat to 60°C					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		4.0692 mL	20.3459 mL	40.6918 mL
		5 mM		0.8138 mL	4.0692 mL	8.1384 mL
	10 mM		0.4069 mL	2.0346 mL	4.0692 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: ≥ 2.08 mg/mL (8.46 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.46 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.46 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	NSC-609249 hydrochloride is an impurity of Verapamil (HY-14275). Verapamil is a calcium channel blocker and a potent and orally active first-generation P-glycoprotein (P-gp) inhibitor ^{[1][2]} .
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REFERENCES

[1]. Gowarty JL, et al. Verapamil as a culprit of palbociclib toxicity. J Oncol Pharm Pract. 2019 Apr;25(3):743-746.

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

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