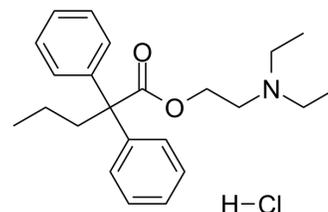


Proadifen hydrochloride

Cat. No.:	HY-B1311
CAS No.:	62-68-0
Molecular Formula:	C ₂₃ H ₃₂ ClNO ₂
Molecular Weight:	389.96
Target:	Cytochrome P450
Pathway:	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 : 50 mg/mL (128.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.5644 mL	12.8218 mL	25.6437 mL
		5 mM	0.5129 mL	2.5644 mL	5.1287 mL
	10 mM	0.2564 mL	1.2822 mL	2.5644 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 (5.33 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	<p>Proadifen hydrochloride is a Cytochrome P450 inhibitor (IC₅₀ = 19 μM). IC₅₀ value: 19 μM Target: P450 Proadifen HCl has many biochemical functions, some of which include: inhibitory effects on NOS1 (neuronal nitric oxide synthase; IC₅₀ = 90 mM), adult mouse skeletal muscle AChR (acetyl choline receptor), hepatic drug metabolism via the CYP (cytochrome P450) system, CYP-dependent (cytochrome P450-dependent) arachidonate metabolism (90% at 50 μM), transmembrane calcium influx, and platelet thromboxane synthesis. This compound has also been shown to block KIR6.1 (ATP-sensitive inward rectifier potassium channel 8; IC₅₀ = 4.4 mM) and stimulate endothelial cell prostacyclin production.</p>
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CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2022 Jun 24;7(1):190.

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

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