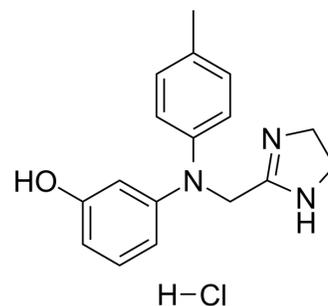


Phentolamine hydrochloride

Cat. No.:	HY-12717A
CAS No.:	73-05-2
Molecular Formula:	C ₁₇ H ₂₀ ClN ₃ O
Molecular Weight:	317.81
Target:	Adrenergic Receptor
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 : 125 mg/mL (393.32 mM; Need ultrasonic)				
		Solvent	Mass		
		Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1465 mL	15.7327 mL	31.4653 mL
		5 mM	0.6293 mL	3.1465 mL	6.2931 mL
		10 mM	0.3147 mL	1.5733 mL	3.1465 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 (6.54 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (6.54 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.54 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Phentolamine hydrochloride is an orally active adrenergic α receptor-blocking agent ^[1] .
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CUSTOMER VALIDATION

- Neurosci Bull. 2023 Jun 19.
- J Endocrinol. 2020 Mar;244(3):459-471.

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- bioRxiv. 2023 Oct 13.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. P A Majid, et al. Phentolamine for vasodilator treatment of severe heart-failure. Lancet. 1971 Oct 2;2(7727):719-24.

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

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