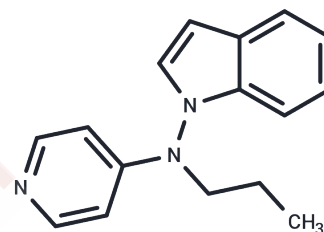


## Besipirdine

## Chemical Properties

CAS No. :	119257-34-0
Formula:	C16H17N3
Molecular Weight:	251.33
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Besipirdine (HP 749 free base) is a non-receptor-dependent cholinomimetic compound with alpha-adrenergic and cardiovascular activities. Besipirdine inhibits voltage-dependent sodium-potassium channels and inhibits biogenic amine uptake. Besipirdine reduces schedule-induced irritability and thirst and enhances cholinergic and adrenergic activity in the CNS in the rat. Besipirdine reduces schedule-induced thirst and enhances cholinergic and adrenergic neurotransmission in the central nervous system.
Targets(IC50)	Adrenergic Receptor, Sodium Channel

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9788 mL	19.8942 mL	39.7883 mL
5 mM	0.7958 mL	3.9788 mL	7.9577 mL
10 mM	0.3979 mL	1.9894 mL	3.9788 mL
50 mM	0.0796 mL	0.3979 mL	0.7958 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Woods-Kettelberger AT, et al. Besipirdine (HP 749) reduces schedule-induced polydipsia in rats. Brain Res Bull. 1996;41(2):125-30.

Tang L, et al. Effects of besipirdine at the voltage-dependent sodium channel. Br J Pharmacol. 1995 Nov;116(5):2468-7doi: 10.1111/j.1476-5381.1995.tb15097.x.

Hubbard JW, et al. alpha-Adrenergic activity and cardiovascular effects of besipirdine HCl (HP 749) and metabolite P7480 in vitro and in the conscious rat and dog. J Pharmacol Exp Ther. 1997 Apr;281(1):337-46.

Hubbard JW, et al. The pharmacokinetics and cardiovascular pharmacodynamics of HP 749 (besipirdine HCl) and metabolite P86-7480 in the conscious monkey. J Clin Pharmacol. 1995 Jul;35(7):688-96.

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