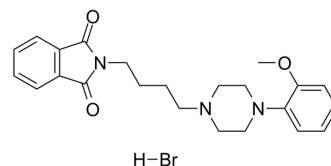


NAN-190 hydrobromide

Cat. No.:	HY-19818A
CAS No.:	115338-32-4
Molecular Formula:	C ₂₃ H ₂₈ BrN ₃ O ₃
Molecular Weight:	474.39
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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 : 16.67 mg/mL (35.14 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.1080 mL	10.5399 mL	21.0797 mL
			5 mM	0.4216 mL	2.1080 mL	4.2159 mL
10 mM			0.2108 mL	1.0540 mL	2.1080 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: ≥ 1.67 mg/mL (3.52 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (3.52 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	NAN-190 hydrobromide is a serotonin receptor 5-HT antagonist. NAN-190 is a selective antagonist of 5-HT _{1A} ^{[1][3]} .
IC ₅₀ & Target	5-HT ₁ Receptor
In Vivo	NAN-190 hydrobromide (0.5 mg/kg, ip) is injected concomitantly with the effective dose of fluoxetine. NAN-190 reverses the catalepsy-improving effect of fluoxetine in 6-OHDA lesioned rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shahane SA, et al. Detection of phospholipidosis induction: a cell-based assay in high-throughput and high-content format. *J Biomol Screen*. 2014 Jan;19(1):66-76.

[2]. Sharifi H, et al. Dose-Dependent Effect of Flouxetine on 6-OHDA-Induced Catalepsy in Male Rats: A Possible Involvement of 5-HT1A Receptors. *Adv Pharm Bull*. 2013;3(1):203-6.

[3]. Citó MC, et al. Antidepressant-like effect of Hoodia gordonii in a forced swimming test in mice: evidence for involvement of the monoaminergic system. *Braz J Med Biol Res*. 2015 Jan;48(1):57-64.

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

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