NAN-190 hydrobromide

Cat. No.: HY-19818A

CAS No.: 115338-32-4

Molecular Formula: $C_{23}H_{28}BrN_3O_3$

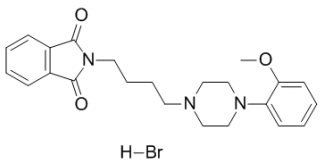
Molecular Weight: 474.39

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (35.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	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.

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