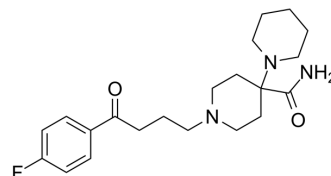


Pipamperone

Cat. No.:	HY-100703
CAS No.:	1893-33-0
Molecular Formula:	C ₂₁ H ₃₀ FN ₃ O ₂
Molecular Weight:	375.48
Target:	5-HT Receptor; Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (266.33 mM; Need ultrasonic)						
	0.1 M HCL : 25 mg/mL (66.58 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.6633 mL	13.3163 mL	26.6326 mL
				5 mM	0.5327 mL	2.6633 mL	5.3265 mL
10 mM				0.2663 mL	1.3316 mL	2.6633 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: ≥ 2.5 mg/mL (6.66 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.66 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.66 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Pipamperone (Floropipamide; McN-JR 3345; R 3345) is a high-affinity antagonist of 5-HT _{2A} receptor (pK _i =8.2) and D ₄ receptor (pK _i =8.0) and a low-affinity antagonist of D ₂ receptor (pK _i =6.7) ^[1] .			
IC ₅₀ & Target	5-HT _{2A} Receptor 8.2 (pKi)	5-HT _{2C} Receptor 6.9 (pKi)	5-HT ₁ Receptor 5.7 (pKi)	D ₄ receptor 8.0 (pKi)
	D ₂ receptor 6.7 (pKi)	α ₁ receptor 7.2 (pKi)		

REFERENCES

[1]. Erik Buntinx, MD, et al. Selective Serotonergic Properties of Low-Dose Pipamperone May Enhance Antidepressant Effect: Preclinical Evidence.

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

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