Spiperone

Cat. No.: HY-B1371

CAS No.: 749-02-0

Molecular Formula: $C_{23}H_{26}FN_3O_2$

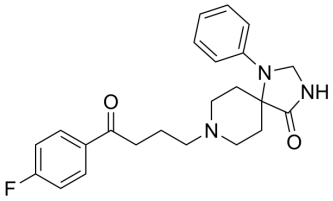
Molecular Weight: 395.47

Target: Dopamine Receptor; 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 : 33.33 mg/mL (84.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.5286 mL	12.6432 mL	25.2864 mL
5 mM	0.5057 mL	2.5286 mL	5.0573 mL
10 mM	0.2529 mL	1.2643 mL	2.5286 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: ≥ 4.55 mg/mL (11.51 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Spiperone is a potent dopamine D2, serotonin 5-HT_{1A}, and serotonin 5-HT_{2A} antagonist. Spiperone is a widely used pharmacological tool. Spiperone has the potential for the research of neurology diseases[1].

REFERENCES

[1]. Metwally KA, et al. Spiperone: influence of spiro ring substituents on 5-HT2A serotonin receptor binding. J Med Chem. 1998;41(25):5084-5093.

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

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