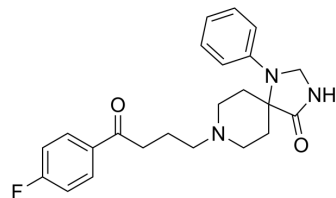


## Spiperone

<b>Cat. No.:</b>	HY-B1371	
<b>CAS No.:</b>	749-02-0	
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>26</sub> FN <sub>3</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	395.47	
<b>Target:</b>	Dopamine Receptor; 5-HT Receptor	
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling	
<b>Storage:</b>	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 Concentration	Mass		
		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

- 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
- 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 D<sub>2</sub>, serotonin 5-HT<sub>1A</sub>, and serotonin 5-HT<sub>2A</sub> antagonist. Spiperone is a widely used pharmacological tool. Spiperone has the potential for the research of neurology diseases<sup>[1]</sup>.

### REFERENCES

- [1]. Metwally KA, et al. Spiperone: influence of spiro ring substituents on 5-HT<sub>2A</sub> serotonin receptor binding. J Med Chem. 1998;41(25):5084-5093.

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

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