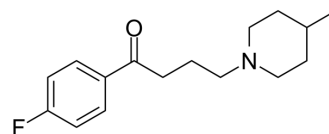


## Melperone

<b>Cat. No.:</b>	HY-B2169		
<b>CAS No.:</b>	3575-80-2		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>22</sub> FNO		
<b>Molecular Weight:</b>	263.35		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<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 : 41.67 mg/mL (158.23 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7972 mL	18.9861 mL	37.9723 mL
	5 mM	0.7594 mL	3.7972 mL	7.5945 mL
	10 mM	0.3797 mL	1.8986 mL	3.7972 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: ≥ 2.08 mg/mL (7.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (7.90 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Melperone, a butyrophenone, is an antipsychotic drug used for sleep induction which is frequently prescribed in psychiatric setting<sup>[1]</sup>. Melperone has been used for a variety of indications, including the treatment of schizophrenia, but also for agitation in the elderly<sup>[2]</sup>.

### REFERENCES

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[1]. Hefner G, et al. Melperone but not bisoprolol or metoprolol is a clinically relevant inhibitor of CYP2D6: evidence from a therapeutic drug monitoring survey. J Neural Transm (Vienna). 2015 Nov;122(11):1609-17.

[2]. Bobo WV, et al. Melperone, an atypical antipsychotic drug with clozapine-like effect on plasma prolactin: contrast with typical neuroleptics. Hum Psychopharmacol. 2009 Jul;24(5):415-22.

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

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