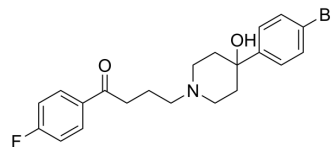


Bromperidol

Cat. No.:	HY-B0901		
CAS No.:	10457-90-6		
Molecular Formula:	C ₂₁ H ₂₃ BrFNO ₂		
Molecular Weight:	420.32		
Target:	Dopamine Receptor; Bacterial		
Pathway:	GPCR/G Protein; Neuronal Signaling; Anti-infection		
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 : 50 mg/mL (118.96 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3791 mL	11.8957 mL	23.7914 mL
		5 mM	0.4758 mL	2.3791 mL	4.7583 mL
10 mM		0.2379 mL	1.1896 mL	2.3791 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 (5.95 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Bromperidol (R-11333) possesses antipsychotic activity, with a high affinity for central dopamine receptors D ₂ . Bromperidol can kill Mycobacteria in a synergistic manner with Spectinomycin ^{[1][2]} .
IC₅₀ & Target	D ₂ Receptor
In Vivo	Bromperidol antagonises stereotyped behaviour and agitation induced by apomorphine or amphetamine, and inhibits conditioned reactions and learned intracranial self-stimulation in rats ^[1] . Bromperidol antagonises apomorphine-induced emesis and inhibits the conditioned avoidance response in dogs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Pharmacology. 2019 May 8;104(1-2):43-50.
- Biol Pharm Bull. 2021;44(8):1140-1150.

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REFERENCES

- [1]. Benfield P, et al. Bromperidol. A preliminary review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in psychoses. *Drugs*. 1988 Jun;35(6):670-84.
- [2]. Ramón-García S, et al. Synergistic drug combinations for tuberculosis therapy identified by a novel high-throughput screen. *Antimicrob Agents Chemother*. 2011 Aug;55(8):3861-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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