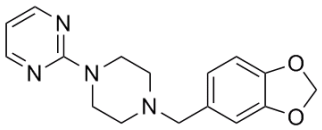
Piribedil

Cat. No.:	HY-12707
CAS No.:	3605-01-4
Molecular Formula:	$C_{16}H_{18}N_4O_2$
Molecular Weight:	298.34
Target:	Adrenergic Receptor; Dopamine 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 (111.72 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3519 mL	16.7594 mL	33.5188 mL
	5 mM	0.6704 mL	3.3519 mL	6.7038 mL
	10 mM	0.3352 mL	1.6759 mL	3.3519 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Piribedil is a **dopamine D_2 receptor** (D_2R) agonist which also displays antagonist property at **hα_{1A}-adrenoceptor** (hα_{1A}-AR).

IC_{50} & Target

D_2R, hα_{1A}-AR[1]

REFERENCES

[1]. Mark J. Milla, et al. Antiparkinsonian Agent Piribedil Displays Antagonist Properties at Native, Rat, and Cloned, Human α2 -Adrenoceptors: Cellular and Functional Characterization. JPET, 2001, 297 (3) 876-887.

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