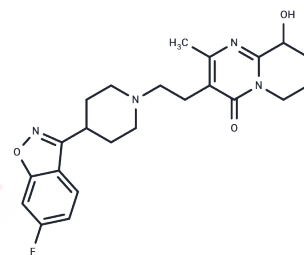


## Paliperidone

## Chemical Properties

CAS No. :	144598-75-4
Formula:	C <sub>23</sub> H <sub>27</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	426.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Paliperidone (9-hydroxyrisperidone)(Invega) is used as an atypical antipsychotic. It applies to the acute and maintenance treatment of schizophrenia. Chemically, paliperidone is the primary active metabolite of the older atypical antipsychotic risperidone.
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,Histamine Receptor,Dopamine Receptor
In vitro	Paliperidone significantly increases the intracellular accumulation of Rh123 and DOX in a concentration-dependent manner. [1] Paliperidone works finely at low concentrations (10 and 50 $\mu$ M) against A $\beta$ (25-35) and MPP(+) and solely protects SH-SY5Y from hydrogen peroxide. Paliperidone (100 $\mu$ M) completely diminishes cell reduction induced by different stressors, regardless of their dosages. Paliperidone is demonstrated with higher oxidative stress-scavenging properties than other APDs in several aspects, such as generated bulk glutathione, low HNE, and protein carbonyl productions. [2] Paliperidone enhances dopamine toxicity at the highest dose and is the only AP that significantly increases cell viability (8.1%) compared with cells treated with dopamine alone. [3]

## Solubility Information

Solubility	DMSO: 4.3 mg/mL (10.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3448 mL	11.7239 mL	23.4478 mL
5 mM	0.469 mL	2.3448 mL	4.6896 mL
10 mM	0.2345 mL	1.1724 mL	2.3448 mL
50 mM	0.0469 mL	0.2345 mL	0.469 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

- Zhu HJ, et al. Neuropsychopharmacology, 2007, 32(4), 757-764.  
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Roemaker NL, et al. Neurosci Lett, 2011, 500(3), 167-171.  
Dremencov E, et al. Psychopharmacology (Berl), 2007, 194(1), 63-72.

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