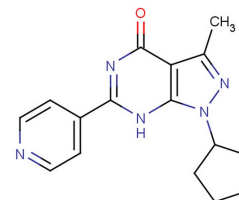


Win 58237

**Chemical Properties**

CAS No.:	158001-76-4
Formula:	C <sub>16</sub> H <sub>17</sub> N <sub>5</sub> O
Molecular Weight:	295.34
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Win 58237 is an inhibitor of cyclic nucleotide phosphodiesterase (PDE) (K <sub>i</sub> : 170 nM for PDE V), with vasorelaxant activity.
Targets(IC <sub>50</sub> )	PDE V(ki): ki:170 nM
In vitro	Win 58237 is a competitive cGMP PDE V inhibitor from the canine aorta (K <sub>i</sub> : 170 nM). Win 58237 is a potent PDE V inhibitor isolated from vascular tissue (IC <sub>50</sub> : 240 nM). It is a relatively less potent calmodulin-sensitive PDE I and cGMP-inhibitable cyclic AMP PDE III inhibitor but does inhibit cyclic AMP PDE IV (IC <sub>50</sub> : approximately 300 nM). Win 58237 possesses vasorelaxant activity in the presence of an intact endothelium or nitric oxide.
In vivo	In vivo, Win 58237 (0.3-3.0 mg/kg i.v.) decreases mean arterial pressure in conscious spontaneously hypertensive rats with an associated increase in vascular (aortic) cGMP content. Win 58237 (10 mg/kg i.v.) increases plasma cGMP levels, from basal levels of 6.7 ± 1.0 to 31.4 ± 3.5 fmol/μL.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.386 mL	16.93 mL	33.859 mL
5 mM	0.677 mL	3.386 mL	6.772 mL
10 mM	0.339 mL	1.693 mL	3.386 mL
50 mM	0.068 mL	0.339 mL	0.677 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Silver PJ, et al. Cyclic GMP potentiation by WIN 58237, a novel cyclic nucleotide phosphodiesterase inhibitor. J Pharmacol Exp Ther. 1994 Dec;271(3):1143-9.

Inhibitors · Natural Compounds · Compound Libraries

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