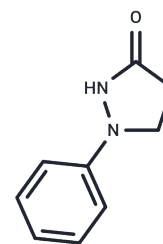


Phenidone

Chemical Properties

CAS No. :	92-43-3
Formula:	C ₉ H ₁₀ N ₂ O
Molecular Weight:	162.19
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Phenidone (1-phenyl-3-pyrazolidinone) is a dual inhibitor of cyclooxygenases and lipoxygenases that ameliorates rat paralysis in experimental autoimmune encephalomyelitis by suppressing its target enzymes[1]. The lipoxygenase inhibitor phenidone is a potent hypotensive agent in the spontaneously hypertensive rat[2].
Targets(IC50)	Lipoxygenase, COX
In vitro	Western blot analysis showed that phenidone significantly inhibited the increases in COX-1/-2 and 5-LOX in the spinal cords of rats with EAE[1].
In vivo	Lipoxygenase inhibitor phenidone markedly attenuates angiotensin II (All) induced vascular contractility. Phenidone was also shown to inhibit the formation of vascular lipoxygenase products and to reduce blood pressure in the All-dependent renovascular hypertensive rat[2].

Solubility Information

Solubility	DMSO: 99 mg/mL (610.39 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	6.1656 mL	30.828 mL	61.6561 mL
5 mM	1.2331 mL	6.1656 mL	12.3312 mL
10 mM	0.6166 mL	3.0828 mL	6.1656 mL
50 mM	0.1233 mL	0.6166 mL	1.2331 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

Moon C, et al. Phenidone, a dual inhibitor of cyclooxygenases and lipoxygenases, ameliorates rat paralysis in experimental autoimmune encephalomyelitis by suppressing its target enzymes. Brain Res. 2005;1035(2):206-210.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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