Phenylquinone

Cat. No.: HY-W275039

CAS No.: 363-03-1

Molecular Formula: $C_{12}H_8O_2$

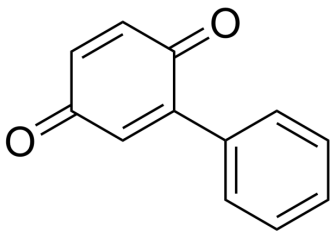
Molecular Weight: 184.19

Target: Others

Pathway: Others

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 : 100 mg/mL (542.92 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.4292 mL	27.1459 mL	54.2918 mL
	5 mM	1.0858 mL	5.4292 mL	10.8584 mL
	10 mM	0.5429 mL	2.7146 mL	5.4292 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 (13.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Phenylquinone (2-Phenylbenzoquinone) causes pain and induces writhing in mice, and is often used in experiments to test the effectiveness of analgesics or anesthetics[1][2].

REFERENCES

[1]. TABER RI, et al. INHIBITION OF PHENYLQUINONE-INDUCED WRITHING BY NARCOTIC ANTAGONISTS. Nature. 1964 Oct 10;204:189-90.

[2]. Dewey WL, et al. The effect of various neurohumoral modulators on the activity of morphine and the narcotic antagonists in the tail-flick and phenylquinone tests. J Pharmacol Exp Ther. 1970 Nov;175(2):435-42.

Caution: Product has not been fully validated for medical applications. For research use only.

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