## Ilimaquinone

MedChemExpress

Cat. No.:	HY-119500		
CAS No.:	71678-03-0		
Molecular Formula:	C <sub>22</sub> H <sub>30</sub> O <sub>4</sub>		
Molecular Weight:	358		
Target:	HIV; Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

BIOLOGICAL ACTIVITY			
Description	Ilimaquinone, a marine sponge metabolite, displays anticancer activity via GADD153-mediated pathway. Ilimaquinone can induce vesiculation of the Golgi apparatus <sup>[1]</sup> . Ilimaquinone exerts anti-HIV, anti-microbial, anti-inflammatory, and effects <sup>[2]</sup> .		
In Vitro	Ilimaquinone induces a concentration-dependent anti-proliferative effect in several types of cancer cell lines, including prostate cancer PC-3 and LNCaP, non-small cell lung cancer A549 and hepatocellular carcinoma Hep3B cells. Ilimaquinone (0.3-30 μM; 48 hours) inhibits the proliferation of PC-3 cells, DU145, LNCaP, MG63, A549, Hep3B cells with GI <sub>50</sub> s of 2.6 μM, 5.8, 4.6, 4.9, 4.1, 12.0 μM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup> Cell Line:Prostate cancer PC-3 cellsConcentration:0.3, 1, 3, 10, and 30 μMIncubation Time:48 hoursResult:Inhibited the proliferation of PC-3 cells in a concentration-dependent manner.		
In Vivo	following oral administra	rminal elimination half-lives (T <sub>1/2</sub> =1.2±0.3 h) due to high plasma clearance (2.95±0.53 L/h/kg) ation (10 mg/kg) in male Sprague-Dawley rats <sup>[2]</sup> . tly confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Pin-Hsuan Lu, et al. Ilimaquinone, a Marine Sponge Metabolite, Displays Anticancer Activity via GADD153-mediated Pathway. Eur J Pharmacol. 2007 Feb 5;556(1-3):45-54.

[2]. Heebin Son, et al. Stereo-Selective Pharmacokinetics of Ilimaquinone Epimers Extracted From a Marine Sponge in Rats. Mar Drugs. 2019 Mar 17;17(3):171.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA