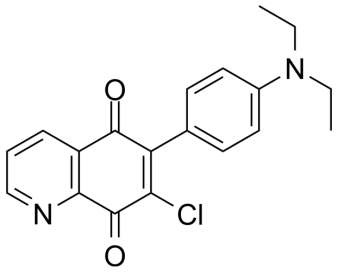
EA4

Cat. No.:	HY-131722
CAS No.:	389614-94-2
Molecular Formula:	$C_{19}H_{17}ClN_2O_2$
Molecular Weight:	340.8
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (146.71 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9343 mL	14.6714 mL	29.3427 mL
	5 mM	0.5869 mL	2.9343 mL	5.8685 mL
	10 mM	0.2934 mL	1.4671 mL	2.9343 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1 mg/mL (2.93 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (2.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EA4, a derivative of quinone, is an inhibitor for both rPLA and cPLA. EA4 can inhibit $rPLA_2$ with a K_i value of 130 μM. EA4 can be used for the research of hemostasis, thrombosis, and erythropoiesis[1].

IC_{50} & Target

Ki: 130 μM ($rPLA_2$)[1]

In Vitro

EA4 (9 μM, 24 μM) inhibits both $rPLA_2$ and $cPLA_2$[1].
EA4 can inhibit $rPLA_2$ with a K_i value of 130 μM[1].
EA4 (50 μM) significantly inhibits A23187-induced AA release from both human and bovine RBCs in a time-dependent manner[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shin, Hae Sook et al. Purification and characterization of a cytosolic, 42-kDa and Ca2+-dependent phospholipase A2 from bovine red blood cells: its involvement in Ca2+-dependent release of arachidonic acid from mammalian red blood cells. The Journal of biological chemistry vol. 277,23 (2002): 21086-94.

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