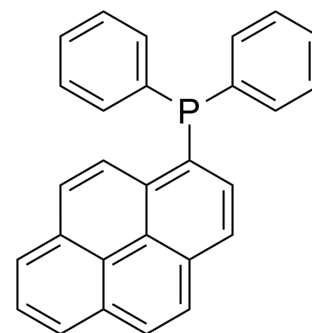


Diphenyl-1-pyrenylphosphine

Cat. No.:	HY-118159
CAS No.:	110231-30-6
Molecular Formula:	C ₂₈ H ₁₉ P
Molecular Weight:	386.42
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (32.35 mM); ultrasonic and warming and heat to 60°C					
		Mass	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	Solvent Concentration				
		1 mM	2.5879 mL	12.9393 mL	25.8786 mL	
		5 mM	0.5176 mL	2.5879 mL	5.1757 mL	
	10 mM	0.2588 mL	1.2939 mL	2.5879 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: ≥ 1.25 mg/mL (3.23 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Diphenyl-1-pyrenylphosphine (DPPP) is a fluoregenic peroxide reactive probe. Diphenyl-1-pyrenylphosphine exhibits a unique phototriggered aggregation-induced emission (AIE)/aggregation-induced quenching (ACQ) transition with a remarkable third-order nonlinear optical signal change ^[1] .
--------------------	--

REFERENCES

[1]. Xing C, et al Diphenyl-1-pyrenylphosphine: photo-triggered AIE/ACQ transition with remarkable third-order nonlinear optical signal change. Chem Commun (Camb). 2020 Apr 14;56(30):4220-4223.

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