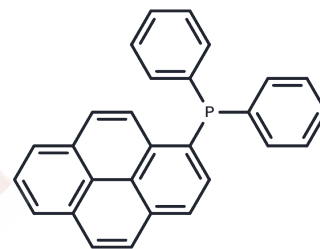


Diphenyl-1-pyrenylphosphine

Chemical Properties

CAS No. :	110231-30-6
Formula:	C ₂₈ H ₁₉ P
Molecular Weight:	386.42
Appearance:	Solid
Storage:	keep away from direct sunlight store at -20°C



Biological Description

Description	Diphenyl-1-pyrenylphosphine (DPPP) is a probe (Ex/Em=351/380 nm) that undergoes a stoichiometric reaction with hydrogen peroxide to generate the fluorescent molecule DPPP-o. It is commonly employed for detecting lipid hydrogen peroxide levels and cellular oxidation.
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Solubility Information

Solubility	Methylene Chloride: 0.5 mg/mL (slightly soluble), Sonication is recommended. DMF: 5 mg/mL (12.94 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	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
50 mM	0.0518 mL	0.2588 mL	0.5176 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

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.

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