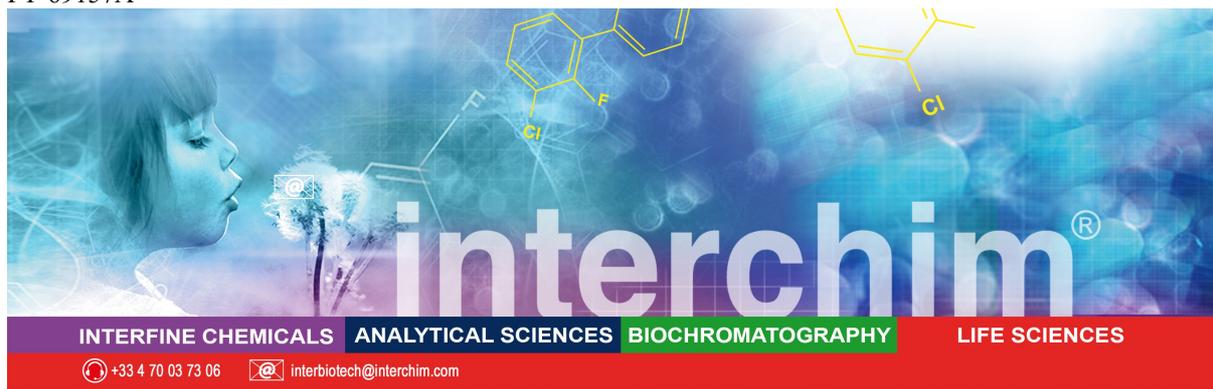


FT-69157A



DPPP

Direct fluorometric detection of hydroperoxides

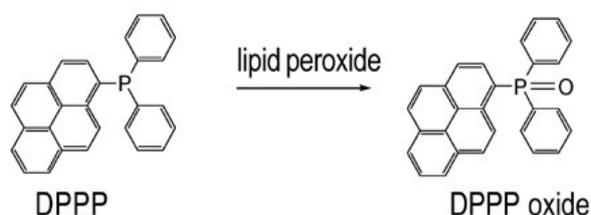
Product Description

Name :	Diphenyl-1-pyrenylphosphine (DPPP)	
Catalog Number :	FP-69157A	10 mg
	FP-69157E	200 mg
Structure :	C ₂₈ H ₁₉ P	
	CAS [110231-30-6]	
Molecular Weight :	MW= 386,43	
Solubility:	DMSO, MeCN	
Absorption / Emission :	λ _{exc} \ λ _{em} (oxide) = 352 / 380 nm	

Storage: Room temperature. Protect from light and moisture.

Introduction

DPPP is a non-fluorescent triphenylphosphine compound. It reacts with hydroperoxide to generate DPPPoxide that emits fluorescent at 352 nm excitation and 380 nm emission wavelengths. Post-column HPLC method is used to determine phospholipid peroxide in sample solutions.



Directions for use

Guidelines for use

- Solubilize DPPP in DMSO, as a 10 mM stock solution and store at –20°C in darkness
- Add to the perfusate to give a final concentration of 10 µM

Other protocol may be found in the literature.

References

- **Kabuyama Y. et al.**, Involvement of selenoprotein P in the regulation of redox balance and myofibroblast viability in idiopathic pulmonary fibrosis, *Genes Cells*, 12: 1235 - 1244 (2007) [Article](#)
- **Saito Y. et al.**, Cell Death Caused by Selenium Deficiency and Protective Effect of Antioxidants, *J. Biol. Chem.*, 278: 39428 - 39434 (2003) [Article](#)
- **Zhang Q. et al.**, Activation of endothelial NADPH oxidase during normoxic lung ischemia is K_{ATP} channel dependent, *Am J Physiol Lung Cell Mol Physiol*, 289: L954 - L961 (2005) [Article](#)

Technical and scientific information

Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

- H2DCFDA, [FP-467312](#)
- DiI-Ac-LDL, [FP-290170](#)
- Dihydroethidium, [FP-52492A](#)

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