

DEPMPO

Chemical Properties

CAS No. : 157230-67-6

Formula: C₉H₁₈NO₄P

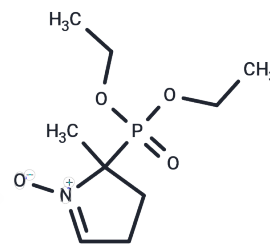
Molecular Weight: 235.22

Storage:

Store at low temperature, Keep away from moisture,
Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DEPMPO (5-(Diethoxyphosphoryl)-5-methyl-1-pyrroline-N-oxide) is a spin trapping agent in biological systems and can be used to detect free radicals in lipid phases.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: 5 mg/mL (21.26 mM), Sonication is recommended. Ethanol: 5 mg/mL (21.26 mM), Sonication is recommended. DMSO: 5 mg/mL (21.26 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	4.2513 mL	21.2567 mL	42.5134 mL
5 mM	0.8503 mL	4.2513 mL	8.5027 mL
10 mM	0.4251 mL	2.1257 mL	4.2513 mL
50 mM	0.085 mL	0.4251 mL	0.8503 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Khan N, et al. Spin traps: in vitro toxicity and stability of radical adducts. Free Radic Biol Med. 2003 Jun 1;34(11): 1473-81.

Anzai K, et al. ESR measurement of rapid penetration of DMPO and DEPMPO spin traps through lipid bilayer membranes. Arch Biochem Biophys. 2003 Jul 15;415(2):251-6.

Liu KJ, et al. Evaluation of DEPMPO as a spin trapping agent in biological systems. Free Radic Biol Med. 1999 Mar; 26(5-6):714-21.

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