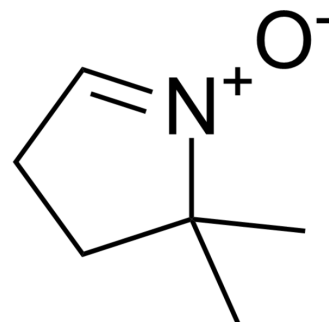


DMPO

Cat. No.:	HY-107690
CAS No.:	3317-61-1
Molecular Formula:	C ₆ H ₁₁ NO
Molecular Weight:	113.16
Target:	Others
Pathway:	Others
Storage:	-20°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 : 100 mg/mL (883.70 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	8.8370 mL	44.1852 mL
5 mM	1.7674 mL	8.8370 mL	17.6741 mL		
10 mM	0.8837 mL	4.4185 mL	8.8370 mL		

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (22.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (22.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (22.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DMPO is a cell permeable hydrophilic spin trap agent for superoxide detection.

REFERENCES

- [1]. Rangelova K, Mason RP. The fidelity of spin trapping with DMPO in biological systems. Magn Reson Chem. 2011;49(4):152-158.
- [2]. Konaka R, Kawai M, Noda H, Kohno M, Niwa R. Synthesis and evaluation of DMPO-type spin traps. Free Radic Res. 1995;23(1):15-25.

Caution: Product has not been fully validated for medical applications. For research use only.

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