

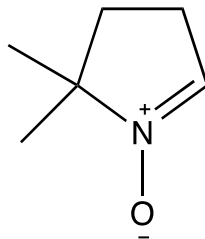
Catalog # 10-2299

DMPO

CAS# 3317-61-1

5,5-Dimethyl-1-pyrroline N-oxide

Lot # FBA6208



Hydrophilic spin trap for superoxide, O-, C-, S- and N-centered free radicals. Useful for both *in vivo* and *in vitro* studies. Cell Permeable.

- 1) Nishizawa *et al.* (2004), *Hydroxyl radical generation caused by the reaction of singlet oxygen with the spin trap DMPO, increases significantly in the presence of biological reductants*; Mol. Pharmacol., **6** 597
- 2) Shi *et al.* (2005), *Evaluation of spin trapping agents and trapping conditions for detection of cell-generated reactive oxygen species*; Arch. Biochem. Biophys., **437** 59
- 3) Clement *et al.* (2005), *Assignment of the EPR spectrum of 5,5-dimethyl-1-pyrroline-N-oxide (DMPO) superoxide spin adduct*; J. Org. Chem., **70** 1198
- 4) Gomez-Mejiba *et al.* (2009), *Immuno-spin trapping of protein and DNA radicals: "tagging" free radicals to locate and understand the redox process*; Free Rad. Biol. Med., **42** 530

PHYSICAL DATA

Molecular Weight:	113.16
Molecular Formula:	C ₆ H ₁₁ NO
Purity:	>98% by HPLC
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description:	Colorless to pale yellow low melting solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Protect from exposure to light or moisture. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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