

DMPO

Catalogue No.: abx076658

DMPO is a small molecule. The formation of free radicals and other highly reactive oxygen species has been implicated in the pathogenesis of many disease states (1). The ability to identify these species is crucial, and spin trapping has accomplished this goal. DMPO (5,5-dimethyl-1-pyrroline N-oxide) is one of the least toxic to cells and animals, and possesses convenient pharmacokinetics (uptake, distribution, metabolism and excretion) in biological systems (2-6). Recent studies have determined that nitric oxide may substantially affect the quantitative determination of DMPO adducts, and therefore extra caution is required when studying generation of these species in the presence of nitric oxide or its radicals (1). DMPO adducts can be generated with protein and DNA radicals (7).

Target:	DMPO
Origin:	Synthetic
Purity:	>98%
Form:	Colorless Solid
CAS Number:	3317-61-1
Storage:	Store at -20 °C.
Molecular Weight:	13.16
Molecular Formula:	C ₆ H ₁₁ NO
SMILES:	<chem>CC1(CCC=[N+]1[O-])C</chem>
Note:	This product is for research use only.