

Catalog Number: CM16873

## 产品信息

**Catalog Number:**  
CM16873

**CAS号:**  
3317-61-1

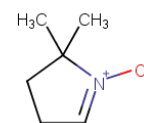
**分子式:**  
C<sub>6</sub>H<sub>11</sub>NO

**主要靶点:**  
Others

**主要通路:**  
其他

**分子量:**  
113.16

**溶解度:**  
DMSO:12mg/mL (106.04 mM)



## 体外活性

In vitro, It was demonstrated in red blood cells and in hamster V79 cells that the DMPO spin adducts of ·O<sub>2</sub> and ·OH are metabolized very rapidly so that even if formed, they may not be detected in many experiments with cells [1].

## 体内活性

When DMPO perfused the heart at 100 μm/L, it attenuated the development of reperfusion arrhythmias during the first 10 min of reperfusion and improved the functional recovery of the heart during reperfusion. Without treatment, 55% of hearts showed irreversible ventricular fibrillation, and this was completely prevented by DMPO, due to its function of trapping O<sub>2</sub> and ·OH radicals [2].

## 描述

DMPO is a kind of water-soluble nitric oxide spin trap, which allows the measurement of oxygen-centered free radicals in biological systems at room temperature using electron spin resonance. It has a high reaction rate constant for superoxide and hydroxyl radicals and distinguishes simultaneously among a variety of important biologically generated free radicals.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years