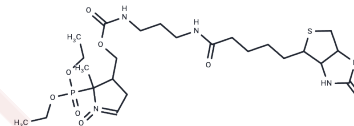


## DEPMPO-biotin

## Chemical Properties

CAS No. : 936224-52-1  
Formula: C<sub>24</sub>H<sub>42</sub>N<sub>5</sub>O<sub>8</sub>PS  
Molecular Weight: 591.66  
Storage: 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 is a nitron that is used to spin trap reactive O-, N-, S-, and C-centered radicals and allow their characterization when used in association with electron spin resonance. It is noted for the stability of adducts formed. DEPMPO can be used in vitro or in vivo, as it crosses lipid bilayer membranes and is a good trapping agent in biological systems. DEPMPO-biotin is a biotinylated form of DEPMPO which retains the outstanding persistency of its adducts. The biotin moiety offers an effective means for monitoring biodistribution in cells, tissues, and organs when used with an avidin-conjugated reporter. Importantly, DEPMPO-biotin binds free radicals, such as S-nitroso groups, on proteins, producing adducts that can be analyzed via the biotin tag. This direct labeling of S-nitrosothiols (SNO) thus serves as an effective alternative to the more cumbersome biotin-switch method for monitoring SNO formation.
Targets(IC50)	Others, Reactive Oxygen Species

## Solubility Information

Solubility	Ethanol: 10 mg/mL (16.9 mM), Sonication is recommended. H <sub>2</sub> O: 1 mg/mL (1.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.6902 mL	8.4508 mL	16.9016 mL
5 mM	0.338 mL	1.6902 mL	3.3803 mL
10 mM	0.169 mL	0.8451 mL	1.6902 mL
50 mM	0.0338 mL	0.169 mL	0.338 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481