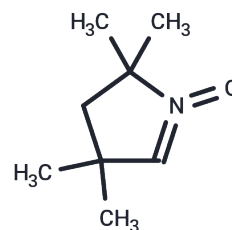


TMPO

Chemical Properties

CAS No. :	10135-38-3
Formula:	C ₈ H ₁₅ NO
Molecular Weight:	141.21
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	TMPO (3,3,5,5-Tetramethyl-1-pyrroline 1-oxide) is a spin-trapping agent that targets free radicals. It scavenges superoxide anions and hydroxyl radicals, and inhibits thymocyte apoptosis with an EC ₅₀ value of 19.1 mM for DNA fragmentation induced by MPS and 30.7 mM by Etoposide. TMPO reacts with intracellular free radicals to form stable nitroxide radical products, thereby reducing oxidative stress (such as lowering peroxide levels and maintaining glutathione content) and blocking oxidative events in the apoptosis pathway. TMPO shows potential for research in apoptosis of immune cells like thymocytes.
Targets(IC ₅₀)	Apoptosis,ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.0817 mL	35.4083 mL	70.8165 mL
5 mM	1.4163 mL	7.0817 mL	14.1633 mL
10 mM	0.7082 mL	3.5408 mL	7.0817 mL
50 mM	0.1416 mL	0.7082 mL	1.4163 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

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