

Propanedial

Chemical Properties

CAS No. :	542-78-9
Formula:	C ₃ H ₄ O ₂
Molecular Weight:	72.06
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	Propanedial is one of the final products of lipid peroxidation and is frequently utilized to assess lipid peroxidation reactions.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	13.8773 mL	69.3866 mL	138.7732 mL
5 mM	2.7755 mL	13.8773 mL	27.7546 mL
10 mM	1.3877 mL	6.9387 mL	13.8773 mL
50 mM	0.2775 mL	1.3877 mL	2.7755 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.

Reference

- Ayala A, Muñoz MF, Argüelles S. Lipid peroxidation: production, metabolism, and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal. *Oxid Med Cell Longev*. 2014;2014:360438.
- Capuzzi E, Ossola P, Caldiroli A, Auxilia AM, Buoli M. Malondialdehyde as a candidate biomarker for bipolar disorder: A meta-analysis. *Prog Neuropsychopharmacol Biol Psychiatry*. 2022 Mar 8;113:110469.

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