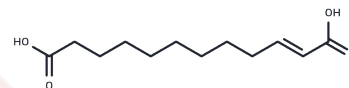


Traumatic Acid

Chemical Properties

CAS No. :	6402-36-4
Formula:	C ₁₂ H ₂₀ O ₄
Molecular Weight:	228.28
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	Traumatic Acid (Dodec-2-enedioic Acid) is a product of the hydroperoxide lyase pathway in plants. Potential as a wound healing agent that stimulates cell division near a wound site to form a protective callus.
Targets(IC50)	Apoptosis,Antioxidant,Reactive Oxygen Species,ROS

Solubility Information

Solubility	Ethanol: 10 mg/mL (43.81 mM),Sonication is recommended. DMSO: 10 mg/mL (43.81 mM),Sonication is recommended. H ₂ O: 1 mg/mL (4.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.38 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3806 mL	21.9029 mL	43.8059 mL
5 mM	0.8761 mL	4.3806 mL	8.7612 mL
10 mM	0.4381 mL	2.1903 mL	4.3806 mL
50 mM	0.0876 mL	0.4381 mL	0.8761 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

Vick, B.A. Oxygenated fatty acids of the lipoxygenase pathway. Lipid Metabolism in Plants 167-191 (1993).
Song X, Wang Y, Zou W, et al. Inhibition of mitophagy via the EIF2S1-ATF4-PRKN pathway contributes to viral encephalitis. Journal of Advanced Research. 2024

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