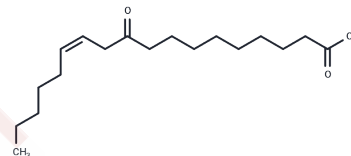


10-oxo-12(Z)-Octadecenoic Acid

Chemical Properties

CAS No. :	103521-29-5
Formula:	C ₁₈ H ₃₂ O ₃
Molecular Weight:	296.45
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	10-oxo-12(Z)-Octadecenoic Acid is a fatty acid with anti-inflammatory activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (269.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (11.13 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	3.3733 mL	16.8663 mL	33.7325 mL
5 mM	0.6747 mL	3.3733 mL	6.7465 mL
10 mM	0.3373 mL	1.6866 mL	3.3733 mL
50 mM	0.0675 mL	0.3373 mL	0.6747 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

Kim M, et al. 10-oxo-12(Z)-octadecenoic acid, a linoleic acid metabolite produced by gut lactic acid bacteria, enhances energy metabolism by activation of TRPV1. FASEB J. 2017 Nov;31(11):5036-5048.

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