

12-Oxo phytodienoic acid

Chemical Properties

CAS No. : 85551-10-6

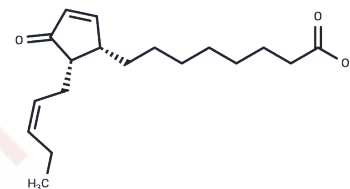
Formula: C₁₈H₂₈O₃

Molecular Weight: 292.41

Store at low temperature

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	12-Oxo phytodienoic acid (12-oxo PDA) is an endogenous signal converter that increases alkaloid biosynthesis in <i>E. californica</i> cell cultures, increases <i>b. dioica</i> tendrils curls, and inhibited jasmonic acid-induced programmed cell death in conditioned <i>A. fru</i> mutants.
Targets(IC50)	Others, NF- κ B, p38 MAPK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4199 mL	17.0993 mL	34.1986 mL
5 mM	0.684 mL	3.4199 mL	6.8397 mL
10 mM	0.342 mL	1.7099 mL	3.4199 mL
50 mM	0.0684 mL	0.342 mL	0.684 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

Wasternack C, Strnad M. Jasmonate signaling in plant stress responses and development - active and inactive compounds. *N Biotechnol.* 2016 Sep 25;33(5 Pt B):604-613.

Wasternack C. Action of jasmonates in plant stress responses and development--applied aspects. *Biotechnol Adv.* 2014 Jan-Feb;32(1):31-9.

León J. Role of plant peroxisomes in the production of jasmonic acid-based signals. *Subcell Biochem.* 2013;69:299-313.

Demmig-Adams B, Cohu CM, Amiard V, Zadelhoff G, Veldink GA, Muller O, Adams WW 3rd. Emerging trade-offs - impact of photoprotectants (PsbS, xanthophylls, and vitamin E) on oxylipins as regulators of development and defense. *New Phytol.* 2013 Feb;197(3):720-9. Review.

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