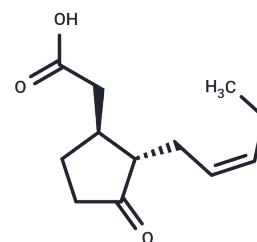


(±)-Jasmonic acid**Chemical Properties**

CAS No. :	77026-92-7
Formula:	C ₁₂ H ₁₈ O ₃
Molecular Weight:	210.27
Storage:	Store at low temperature, High Volatility Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>

**Biological Description**

Description	(±)-Jasmonic acid (trans-Jasmonic acid) is a compound found in grapevine inflorescences and fruits with pro-aging activity, inhibiting chlorophyll levels in green and yellowing barley leaf segments, suppressing rice seedling elongation, and participating in biogenic amine chemical coupling through decarboxylation with both aliphatic and aromatic α -amino acids.
Targets(IC50)	Others
In vitro	(±)-Jasmonic acid (20 μ M) was added to <i>V. vinifera</i> cell suspension on day 0 and cultured for 7 days to promote anthocyanin synthesis. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (380.46 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: 3.3 mg/mL (15.69 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	4.7558 mL	23.779 mL	47.5579 mL
5 mM	0.9512 mL	4.7558 mL	9.5116 mL
10 mM	0.4756 mL	2.3779 mL	4.7558 mL
50 mM	0.0951 mL	0.4756 mL	0.9512 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

Halim VA, et al. The role of salicylic acid and jasmonic acid in pathogen defence. *Plant Biol (Stuttg)*. 2006 May;8(3): 307-13.

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