

## Jasmonic acid

## Chemical Properties

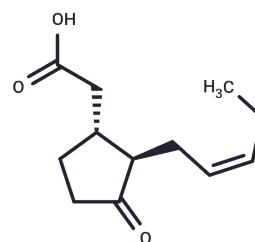
CAS No. : 6894-38-8

Formula: C<sub>12</sub>H<sub>18</sub>O<sub>3</sub>

Molecular Weight: 210.27

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Jasmonic acid (JA) is a phytohormone and plant growth regulator involved in plant defense and growth and development. Jasmonic acid plays an important role in signaling, inducing the MAP kinase cascade pathway and calcium channels.
Targets(IC50)	Calcium Channel

## Solubility Information

Solubility	Ethanol: 58.8 mg/mL (279.64 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## 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

Ruan J, et al. Jasmonic Acid Signaling Pathway in Plants. *Int J Mol Sci.* 2019 May 20;20(10):2479.

Dathe W, et al. Endogenous plant hormones of the broad bean, *Vicia faba* L. (-)-jasmonic acid, a plant growth inhibitor in pericarp. *Planta.* 1981 Dec;153(6):530-5.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481