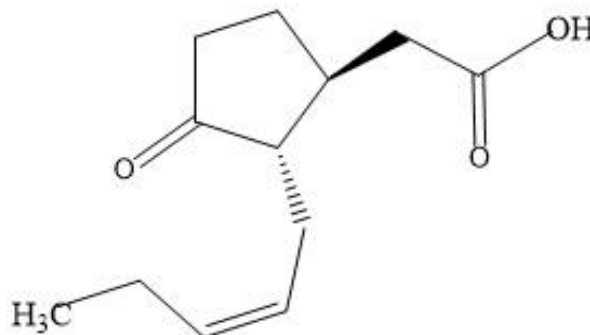


### J379 Jasmonic Acid

Synonyms: ( $\pm$ )-1 $\alpha$ ,2 $\beta$ -3-Oxo-2-(cis-2-pentenyl)cyclopentaneacetic acid  
CAS: 77026-92-7  
Formula: C<sub>12</sub>H<sub>18</sub>O<sub>3</sub>  
Mol. Weight: 210.27 g/mol

#### Properties

Form: Liquid  
Appearance: Colorless to Faint Yellow  
Application: Plant Defense & Immunity  
Formulation: 100 mg/mL in Ethanol  
Storage Temp: -20°C  
Other Notes: Plant Tissue Culture Tested



#### Application Notes

Jasmonic acid is a plant hormone that activates the wound response to insect, herbivory, and necrotrophic pathogens (Hickman *et al.* 2017). It was originally found to regulate expression of proteinase inhibitors which are central to plant wound response (Farmer *et al.* 1992)

#### References

- Farmer EE *et al.* (1992) Regulation of Expression of Proteinase Inhibitor Genes by Methyl Jasmonate and Jasmonic Acids. *Plant Physiol.* Vol. 98:905-1002  
Hickman R *et al.* (2017) Architecture and Dynamics of the Jasmonic Acid Gene Regulatory Network. *Plant Cell* Vol. 29:2086-2105

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