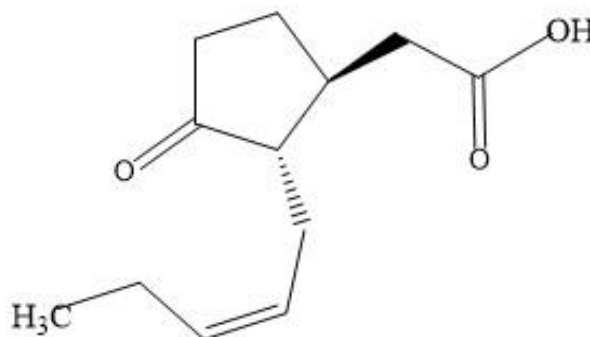


J379 Jasmonic Acid

Synonyms: (\pm)-1 α ,2 β -3-Oxo-2-(cis-2-pentenyl)cyclopentaneacetic acid
 CAS: 77026-92-7
 Formula: C₁₂H₁₈O₃
 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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