



Dihydrojasmonic acid

Cat. No.:	OB0626WX-639
Appearance:	Liquid
Purity:	≥95% (mixture of isomers)
Identity:	Confirmed by NMR, TLC, and HPLC.
Size:	100 mg; 250 mg; 500 mg

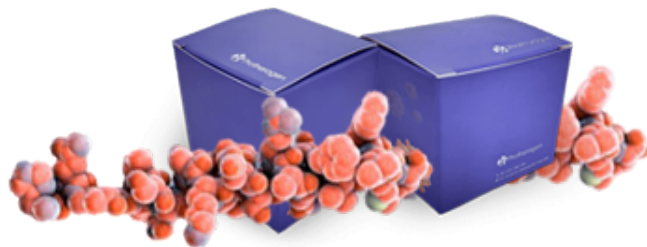
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Dihydrojasmonic acid is a stable cyclopentanone plant growth regulator that modulates seed physiology and early plant development.
Synonyms	3-oxo-2-pentyl-cyclopentaneacetic acid; (±)-9,10-Dihydrojasmonic Acid; 3-Oxo-2-pentylcyclopentaneacetic acid; 2-(3-oxo-2-pentylcyclopentyl)acetic acid; (+/-)-Dihydrojasmonic Acid; (+/-)-9,10-Dihydrojasmonic Acid; 9,10-Dihydrojasmonic acid; 2-Amyl-3-oxocyclopentaneacetic Acid; 2-Amyl-3-(carboxymethyl)cyclopentanone; 3572-64-3
CAS No.	3572-64-3
Compound CID	107126
Formula	C ₁₂ H ₂₀ O ₃
Formula Weight	212.3

Specification

Source	Synthetic
Solubility in Other Solvents	Soluble in chloroform.
IUPAC Name	2-(3-oxo-2-pentylcyclopentyl)acetic acid
InChI	InChI=1S/C12H20O3/c1-2-3-4-5-10-9(8-12(14)15)6-7-11(10)13/h9-10H,2-8H2,1H3,(H,14,15)
InChI Key	PQEYTAGBXNEUQL-UHFFFAOYSA-N
Canonical SMILES	O=C1C(CCCCC)C(CC(O)=O)CC1

**Stability**

1 year

Storage

Storage at -20°C.

Applications

Dihydrojasmonic acid operates as a stable cyclopentanone plant oxylipin reference compound for standardizing natural product extraction workflows, validating high-performance liquid chromatography separation indexes, and profiling complex secondary metabolite signaling cascades.