

Prohydrojasmon racemate

Chemical Properties

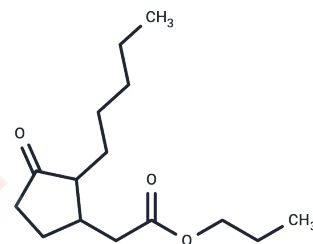
CAS No. : 158474-72-7

Formula: C₁₅H₂₆O₃

Molecular Weight: 254.37

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Prohydrojasmon racemate (Propyl dihydrojasmonate) is a synthesized plant growth regulator, which has jasmonic acid activity.
Targets(IC50)	Others
In vitro	Prohydrojasmon applied to komatsuna at a concentration of 0.5 μ M significantly increased the total phenolic content and anthocyanin content, and a concentration of 1 μ M increased the antioxidant activity. In lettuce, prohydrojasmon at a concentration of 400 μ M significantly increased the total phenolic content and anthocyanin content, while a concentration of 0.5 μ M significantly increased the antioxidant activity. Prohydrojasmon positively affects the phenolic compound and anthocyanin accumulation and antioxidant activity in komatsuna and lettuce without adversely affecting growth[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (216.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9313 mL	19.6564 mL	39.3128 mL
5 mM	0.7863 mL	3.9313 mL	7.8626 mL
10 mM	0.3931 mL	1.9656 mL	3.9313 mL
50 mM	0.0786 mL	0.3931 mL	0.7863 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

Cohen S, Barer F, Itzhak I, et al. Effect of prohydrojasmon on total phenolic content, anthocyanin accumulation and antioxidant activity in komatsuna and lettuce[J]. J Immunol Res. 2018 May 15;2018:2310970.

Kusumoto D, Goldwasser Y, Xie X, et al. Resistance of Red Clover (*Trifolium pratense*) to the Root Parasitic Plant *Orobanche minor* is Activated by Salicylate but not by Jasmonate[J]. Annals of Botany, 2007, 100(3):537-544.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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