

Gibberellin A4

Chemical Properties

CAS No. : 468-44-0

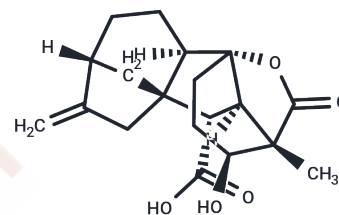
Formula: C₁₉H₂₄O₅

Molecular Weight: 332.39

Keep away from direct sunlight

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	Gibberellin A4 is a biologically active gibberellin that promotes flowering in apple trees and exhibits anti-NF-κB and antioxidant activities, making it applicable to periodontal disease research.
Targets(IC50)	NF-κB
In vitro	<p>Methods: RAW 264.7 macrophages stably transfected with the NF-κB luciferase reporter gene were pretreated with 3-30 μM gibberellin A4 for 30 min, followed by LPS stimulation.</p> <p>Results: Gibberellin A4 reduced LPS-induced NF-κB activation by 32% [1].</p> <p>Methods: Gibberellin A4 at 3-300 μg was applied to apple trees 4.5 weeks after flowering.</p> <p>Results: Gibberellin A4 promoted flowering in apple trees [2].</p>

Solubility Information

Solubility	DMSO: 80.00 mg/mL (240.68 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	3.0085 mL	15.0426 mL	30.0851 mL
5 mM	0.6017 mL	3.0085 mL	6.017 mL
10 mM	0.3009 mL	1.5043 mL	3.0085 mL
50 mM	0.0602 mL	0.3009 mL	0.6017 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

Nani BD, et al. A Study on the Anti-NF- κ B, Anti-Candida, and Antioxidant Activities of Two Natural Plant Hormones: Gibberellin A4 and A7. *Pharmaceutics*. 2022;14(7):1347. Published 2022 Jun 25.

Looney NE, et al. Promotion of flowering in apple trees with gibberellin A4 and C-3 epi-gibberellin A 4. *Planta*. 1985 Aug;165(2):292-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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