

Product Data Sheet

Product Name: Gibberellin A₄

Cat. No.: GC47401

Chemical Properties

Cas. No. 468-44-0

SMILES OC([C@H]1[C@@]2([H])[C@]3(OC([C@@]2([C@H](CC3)O)C)=O)[C@@]4([H])[C@]15C[C@H](C(C5)=C)CC4)=O

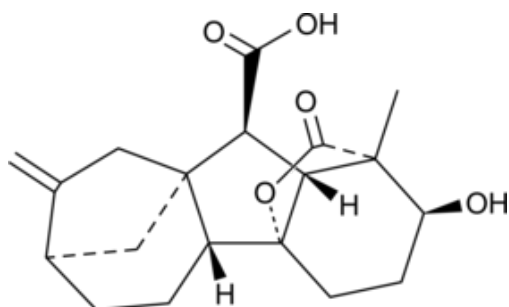
Formula C₁₉H₂₄O₅ M.Wt 332.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml
Storage Store at 2-8°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Gibberellin A₄ is a plant hormone originally isolated from *G. fujikuroi* that has plant signaling and growth stimulatory activities.¹ Gibberellin A₄ is found in the micropylar endothelium cells of *Arabidopsis* maternal seed tissue and triggers suspensor programmed cell death (PCD) in the embryo.² It increases hypocotyl, but not radicle, growth of cucumber seedlings when used at concentrations ranging from 6-100 μM.³ Gibberellin A₄ also increases flowering in apple trees when applied post-flowering in the previous year.⁴

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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1. Takahashi, N., Seta, Y., Kitamura, H., et al. A new gibberellin, gibberellin A4. *Bull. Agri. Chem. Soc. Japan* 21(6)396-398(1957)
2. Shi, C., Luo, P., Du, Y.-T., et al. Maternal control of suspensor programmed cell death via gibberellin signaling. *Nat. Commun.* 10(1)3484(2019)
3. Halevy, A.H., and Cathey, H.M. Effects of structure and concentration of gibberellins on the growth of cucumber seedlings. *Bot. Gaz.* 122(1)63-67(1960)
4. Looney, N.E., Pharis, R.P., and Noma, M. Promotion of flowering in apple trees with gibberellin A4 and C-3 epi-gibberellin A4. *Planta* 165(2)292-294(1985)

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