

Product Data Sheet

Product Name: Gibberellin A1

Cat. No.: GC49215

Chemical Properties

Cas. No. 545-97-1

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@@](CC4)(C(C5)=C)O)=O

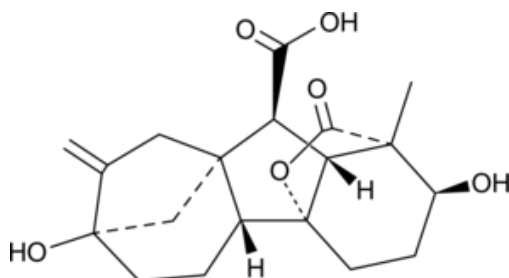
Formula C₁₉H₂₄O₆ M.Wt 348.4

Solubility Acetone:Water (1:1): soluble, DMSO: Storage -20°C
soluble, Methanol: soluble

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 A1 is a plant hormone that can regulate plant growth^[1]. Gibberellin A1 contributes to control the photoperiod-mediated tuber formation in potatoes^[2]. Gibberellin A1 has been used to induce dwarfism and stem elongation in higher plants^[3]. Gibberellin A1 can promote the stem growth induced by long-day conditions and reverse the inhibitory effects of BX-112 and AMO-1618 on stem elongation^[4]. Gibberellin A1 can be widely used as an internal reference to optimize the analytical parameters of gas chromatography, thereby enabling efficient identification of the metabolism of

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Gibberellin A1 during the germination process of legume seeds [5].

References:

- [1] Ross J J, O'Neill D P, Smith J J, et al. Evidence that auxin promotes gibberellin A1 biosynthesis in pea[J]. The Plant Journal, 2000, 21(6): 547-552.
- [2] Bou-Torrent J, Martínez-García J F, García-Martínez J L, et al. Gibberellin A1 metabolism contributes to the control of photoperiod-mediated tuberization in potato[J]. PLoS One, 2011, 6(9): e24458.
- [3] Phinney B O. Gibberellin A1 dwarfism and shoot elongation in higher plants[J]. Biologia plantarum, 1985, 27(2): 172-179.
- [4] Zeevaart J A, Gage D A, Talon M. Gibberellin A1 is required for stem elongation in spinach[J]. Proceedings of the National Academy of Sciences, 1993, 90(15): 7401-7405.
- [5] Nadeau R, Rappaport L. Metabolism of gibberellin A1 in germinating bean seeds[J]. Phytochemistry, 1972, 11(5): 1611-1616.

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