

Product Data Sheet

Product Name: Dihydrocytochalasin B

Cat. No.: GC43461

Chemical Properties

Cas. No. 39156-67-7

SMILES O=C1CC[C@H](O)CCC[C@@H](C)C/C=C/[C@]([C@H](O)C([C@@H](C)[C@@]2([H])[C@H](CC3=CC=CC=C3)NC4=O)=C)([H])[C@@]24O1

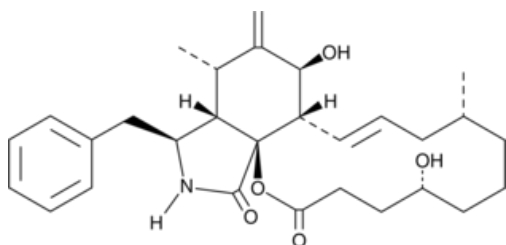
Formula C₂₉H₃₉NO₅ M.Wt 481.6

Solubility DMF: 30 mg/mL, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:20): 0.05 mg/mL, DMSO: 20 mg/mL, Ethanol: 20 mg/mL

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

Dihydrocytochalasin B (H2CB) is a Cytokinesis inhibitor and changes the morphology of the cells, similar to that of cytochalasin B; does not inhibit glucose transport[1]. Dihydrocytochalasin B (H2CB) disrupts the actin structure and inhibits the ability of growth factors to stimulate DNA synthesis, reversibly blocks initiation of DNA synthesis[2]. Dihydrocytochalasin B (H2CB) inhibits active calcium transport and causes a Ca²⁺ increase in the mucosal scrapings[3].

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

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References:

- [1]. Atlas SJ, et al. Dihydrocytochalasin B. Biological effects and binding to 3T3 cells. J Cell Biol. 1978 Feb;76(2):360-70.
- [2]. Jande SS, et al. Effects of cytochalasin B and dihydrocytochalasin B on calcium transport by intestinal absorptive cells. Calcif Tissue Int. 1981;33(2):143-51.
- [3]. Maness PF, et al. Dihydrocytochalasin B disorganizes actin cytoarchitecture and inhibits initiation of DNA synthesis in 3T3 cells. Cell. 1982 Aug;30(1):253-62.

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