

Product Data Sheet

Product Name: β -Amyrone

Cat. No.: GC66340

Chemical Properties

Cas. No. 638-97-1

Formula $C_{30}H_{48}O$

M.Wt 424.7

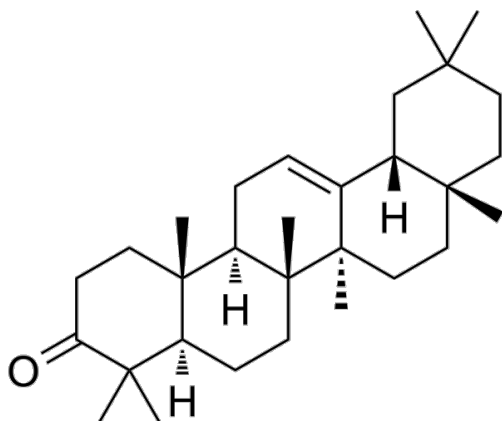
Solubility

Storage 4°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

β -Amyrone (β -Amyron) is a triterpene compound which has anti-inflammatory activity through inhibiting the expression of **COX-2**. β -Amyrone has antifungal activity, as well as antiviral activity against Chikungunya virus. β -Amyrone also inhibits **α -glucosidase** and acetylcholinesterase (**AChE**) activity. β -Amyrone can be used in the research of disease like inflammation, infection, and obesity^{[1][2][3][4]}.

β -Amyrone (1.25-10 μ g/mL, 24 h) inhibits on NO[?] production in LPS-stimulated J774 cells, with an

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IC₅₀ value of 4.61 µg/mL, and has no obvious effect on cell viability [1].

β-Amyrone (10 µg/mL, 24 h) inhibits IL-6, IL-10 levels, and COX-2 expression in LPS-stimulated J774 cells[1].

β-Amyrone (0-235 µM, 7days) has antiviral activity in Vero cells against Chikungunya virus (CHIKV), with EC₅₀ value of 86 µM[2].

β-Amyrone inhibits α-glucosidase, acetylcholinesterase (AChE) and fungal activity with IC₅₀ values of 25 µM, 23 µM and 8 µg/mL, respectively[4].

Western Blot Analysis[1]

Cell Line: LPS (1 µg/mL)-stimulated J774 cells

Concentration: 2.5, 5, 10 µg/mL

Incubation
Time: 24 h

Result: Inhibited COX-2 expression in a concentration-dependent manner (approximately 90% reduction at 5 or 10 µg/ mL).

β-Amyrone (local administration on ear, 0.1-0.6 mg/kg, a single dose) inhibits ear edema formation in phenol-induced edema mice[1].

Animal Model: Ear phenol-induced edema in Balb C mice[1]

Dosage: 0.1, 0.3, 0.6 mg/kg, a single dose

Administration: Local administration (20 µL solution) on ear

Result: Inhibited ear edema formation in a dose-related manner (47% inhibition at the dose of 0.6mg/kg).

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