
Product Data Sheet

Product Name: Tirucallol
Cat. No.: GC63228

Chemical Properties

Cas. No. 514-46-5

Formula C₃₀H₅₀O M.Wt 426.72

Solubility Storage

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

Tirucallol is a triterpenoid that has been found in *Camellia* and has reverse transcriptase inhibitory and anti-inflammatory activities.^{1,2} It inhibits HIV-1 reverse transcriptase (IC₅₀ = 3.8 μM).¹ Tirucallol (25, 50, and 100 μM) reduces nitric oxide (NO) and prostaglandin E₂ production in LPS-stimulated isolated mouse peritoneal macrophages.² Topical application of tirucallol (0.25, 0.5, and 1 mg/ear) reduces ear edema induced by phorbol 12-myristate 13-acetate in mice.

1. Akihisa, T., Ogihara, J., Kato, J., et al. Inhibitory effects of triterpenoids and sterols on human immunodeficiency virus-1 reverse transcriptase. *Lipids* 36(5):507-512 (2001)

2. Fernandez-Arche, A., Saenz, M.T., Arroyo, M., et al. Topical anti-inflammatory effect of tirucallol, a triterpene isolated from *Euphorbia lactea* latex. *Phytomedicine* 17(2):146-148 (2010)

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

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