

Product Data Sheet

Product Name: Stearyl glycyrrhetinate

Cat. No.: GC61297

Chemical Properties

Cas. No. 13832-70-7

SMILES CC(C)([C@](CC[C@@]([C@@]1(CC[C@]2(CC[C@](C(OCCCCCCCCCCCCCCCCC)=O)(C[C@]2(C1=C3)[H])C)C)C)4C)5[H])[C@@H](O)CC[C@]5(C)[C@@]4([H])C3=O

Formula C₄₈H₈₂O₄ M.Wt 723.16

Solubility Ethanol : 25 mg/mL (34.57 mM; Need ultrasonic); DMSO : < 1 mg/mL (insoluble or slightly soluble) Storage 4°C, stored under nitroge

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

Stearyl glycyrrhetinate, a major component in licorice extract, has a MIC against *S. aureus* strains of more than 256 mg/L. Stearyl glycyrrhetinate has antibacterial effects[1].

Glycyrrhetic acid (GRA) and disodium succinoyl glycyrrhetinate (GR-SU) shows strong antibacterial activities compared to the other three agents tested. At a higher concentration (above 2x MIC), GRA and GR-SU shows bactericidal activity, whereas at a concentration of 1x MIC, they showed a bacteriostatic effect[1].

[1]. Oyama K, et al. Antibacterial Effects of Glycyrrhetic Acid and Its Derivatives on *Staphylococcus aureus*. PLoS One. 2016 Nov 7;11(11):e0165831.

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

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