
Product Data Sheet

Product Name: Sanguisorbigenin

Cat. No.: GC63180

Chemical Properties

Cas. No. 6812-98-2

Formula C₃₀H₄₆O₃

M.Wt

454.68

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

Sanguisorbigenin is a natural antibacterial agent that inhibits methicillin-resistant *S. aureus* (MRSA)[1].

The minimal inhibitory concentration values of Sanguisorbigenin against six strains of *S. aureus* are in the range of 12.5-50 µg/mL[1]. The expression of *blaR1*, *mecA* and *blaZ* is significantly inhibited in MRSA in a dose-dependent manner when it is treated with sub-MIC (1.56-6.25 µg/mL) concentrations of Sanguisorbigenin. Sanguisorbigenin remarkably reduces the gene expression of *mecA*. Sanguisorbigenin has a potent antibacterial effect and could effectively reverse the sense of antibiotics by inhibiting the *mecA* expression and decrease PBP2a expression[1].

[1]. S Wang, et al. Antibacterial activity and synergy of antibiotics with sanguisorbigenin isolated from *Sanguisorba officinalis* L. against methicillin-resistant *Staphylococcus aureus*. *Lett Appl Microbiol.* 2021 Mar;72(3):238-244.

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

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