



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

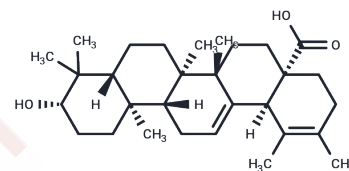
[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Sanguisorbigenin

## Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 6812-98-2                                                |
| Formula:          | C <sub>30</sub> H <sub>46</sub> O <sub>3</sub>           |
| Molecular Weight: | 454.69                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Sanguisorbigenin (Tomentosolic acid) is a natural antimicrobial agent that inhibits methicillin-resistant <i>Staphylococcus aureus</i> (MRSA).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Targets(IC50) | Antibacterial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| In vitro      | Treatment of Sanguisorbigenin with sub-MIC concentrations (1.56-6.25 µg/mL) significantly inhibited the expression of <i>bla</i> R1, <i>mecA</i> , and <i>bla</i> Z in MRSA dose-dependently. The gene expression of <i>mecA</i> is remarkably reduced after the treatment of Sanguisorbigenin. The minimal inhibitory concentration values of Sanguisorbigenin against six strains of <i>S. aureus</i> are in the range of 12.5-50 µg/mL[1]. Sanguisorbigenin has a potent antibacterial effect and could effectively reverse the sense of antibiotics by inhibiting the <i>mecA</i> expression and decreasing PBP2a expression[1]. |

## Solubility Information

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| Solubility | DMSO: 60 mg/ml (127.48 mM)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-----------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg      |
|-------|-----------|------------|-----------|
| 1 mM  | 2.1993 mL | 10.9965 mL | 21.993 mL |
| 5 mM  | 0.4399 mL | 2.1993 mL  | 4.3986 mL |
| 10 mM | 0.2199 mL | 1.0997 mL  | 2.1993 mL |
| 50 mM | 0.044 mL  | 0.2199 mL  | 0.4399 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.