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Lieferung & Zahlungsart

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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

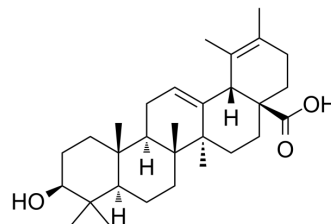
mail@szabo-scandic.com

www.szabo-scandic.com

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

Sanguisorbigenin

Cat. No.:	HY-N8151
CAS No.:	6812-98-2
Molecular Formula:	C ₃₀ H ₄₆ O ₃
Molecular Weight:	454.68
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (109.97 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.1993 mL	10.9967 mL	21.9935 mL
		5 mM		0.4399 mL	2.1993 mL	4.3987 mL
	10 mM		0.2199 mL	1.0997 mL	2.1993 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.75 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Sanguisorbigenin is a natural antibacterial agent that inhibits methicillin-resistant <i>S. aureus</i> (MRSA) ^[1] .
In Vitro	<p>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].</p> <p>The expression of <i>blaR1</i>, <i>mecA</i> and <i>blaZ</i> 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 <i>mecA</i>. Sanguisorbigenin has a potent antibacterial effect and could effectively reverse the sense of antibiotics by inhibiting the <i>mecA</i> expression and decrease PBP2a expression^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA