



# SZABO SCANDIC

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## 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

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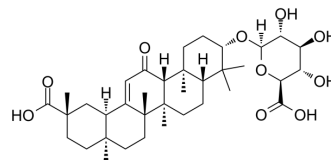
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## Glycyrrhetic acid 3-O-β-D-glucuronide

<b>Cat. No.:</b>	HY-N6851		
<b>CAS No.:</b>	34096-83-8		
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>54</sub> O <sub>10</sub>		
<b>Molecular Weight:</b>	646.81		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (386.51 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5460 mL	7.7302 mL	15.4605 mL
	5 mM	0.3092 mL	1.5460 mL	3.0921 mL
	10 mM	0.1546 mL	0.7730 mL	1.5460 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (3.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (3.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (3.22 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Glycyrrhetic acid 3-O-β-D-glucuronide, isolated from glycyrrhiza, is an important derivative of glycyrrhizin (GL) with an anti-allergic activity<sup>[1]</sup>. Glycyrrhetic acid 3-O-β-D-glucuronide (GAMG) shows that β-glucuronidases (β-GUS) are key GAMG-producing enzymes, displaying a high potential to convert GL directly into GAMG<sup>[2]</sup>. Glycyrrhetic acid 3-O-β-D-glucuronide is valuable as a sweetener.

#### In Vitro

Glycyrrhetic acid 3-O-β-D-glucuronide can inhibit the release of β-hexosaminidase from RBL-2H3 cells with an IC<sub>50</sub> value of 0.28 mM<sup>[2]</sup>. Glycyrrhetic acid 3-O-β-D-glucuronide (GAMG) significantly reduces the nitrite concentration in a dose-dependent manner

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with an IC<sub>50</sub> value of 120 μM in LPS-induced RAW264.7 cells<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. Park HY, et al. Anti-allergic activity of 18beta-glycyrrhetic acid-3-O-beta-D-glucuronide. Arch Pharm Res. 2004 Jan;27(1):57-60.
- [2]. Lichun Guo, et al. Glycyrrhetic Acid 3-O-Mono-β-d-glucuronide (GAMG): An Innovative High-Potency Sweetener with Improved Biological Activities. Comprehensive Reviews in Food Science and Food Safety
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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