



# SZABO SCANDIC

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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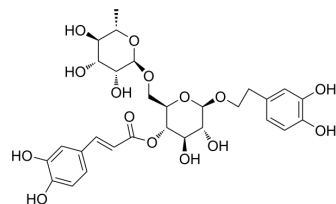
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## Forsythiaside A

<b>Cat. No.:</b>	HY-N0028
<b>CAS No.:</b>	79916-77-1
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>36</sub> O <sub>15</sub>
<b>Molecular Weight:</b>	624.59
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (200.13 mM; Need ultrasonic)					
	H <sub>2</sub> O : 100 mg/mL (160.11 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.6011 mL	8.0053 mL	16.0105 mL
<b>5 mM</b>			0.3202 mL	1.6011 mL	3.2021 mL	
	<b>10 mM</b>		0.1601 mL	0.8005 mL	1.6011 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Forsythiaside A is an orally active phenylethanoid glycoside isolated from the dried fruits of Forsythia suspensa. Forsythiaside A is also an inhibitor of COX-2 and has anti-inflammatory, antioxidant and neuroprotective effects. Forsythiaside A prevents neuroinflammation and apoptosis caused by Aβ <sub>25-35</sub> damage and may be used in Alzheimer's disease (AD) research. Forsythiaside A also activates the Nrf2/HO-1 signaling pathway and inhibits OVA-induced asthma in mice <sup>[1][2][3]</sup> .
<b>In Vitro</b>	Forsythiaside A (30 μM) inhibits COX-2 activity by 72% <sup>[2]</sup> Forsythiaside A (80 μM) inhibits Aβ <sub>25-35</sub> (5 μM)-induced apoptosis in hippocampal neurons and inhibits MAGL-mediated 2-AG production <sup>[2]</sup>

	<p>Forsythiaside A (80 μM 30 min) CB1R <math>\beta</math>-amyloid-induced A<math>\beta</math><sub>25-35</sub> <math>\beta</math>-secretase activity<sup>[2]</sup></p> <p>Forsythiaside A (2.5-10 μg/mL 12 h) Nrf2/HO-1 signaling<sup>[3]</sup></p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>Forsythiaside A (15-60 mg/kg; single dose; oral) improves OVA-induced asthma models in mice, dose-dependently activates Nrf2/HO-1 signaling, and attenuates OVA-induced lung histopathology<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

## REFERENCES

- [1]. Wang Y, et al. Forsythiaside A Exhibits Anti-inflammatory Effects in LPS-Stimulated BV2 Microglia Cells Through Activation of Nrf2/HO-1 Signaling Pathway. *Neurochem Res.* 2016 Apr;41(4):659-65.
- [2]. Chen L, et al. Forsythiaside prevents  $\beta$ -amyloid-induced hippocampal slice injury by upregulating 2-arachidonoylglycerol via cannabinoid receptor 1-dependent NF- $\kappa$ B pathway. *Neurochem Int.* 2019 May;125:57-66.
- [3]. Qian J, et al. Protective effect of forsythiaside A on OVA-induced asthma in mice. *Eur J Pharmacol.* 2017 Oct 5;812:250-255.

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

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