



# 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

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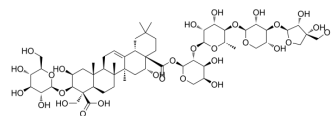
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## Platyconic acid A

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-N9377   |
| <b>CAS No.:</b>           | 68051-23-0   |
| <b>Molecular Formula:</b> | C <sub>57</sub> H <sub>90</sub> O <sub>29</sub>  |
| <b>Molecular Weight:</b>  | 1239.31  |
| <b>Target:</b>            | Others   |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 25 mg/mL (20.17 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent       |      | 1 mg      | 5 mg      | 10 mg     |
|---------------------------|---------------|------|-----------|-----------|-----------|
|                           | Concentration | Mass |           |           |           |
|                           | 1 mM          |      | 0.8069 mL | 4.0345 mL | 8.0690 mL |
|                           | 5 mM          |      | 0.1614 mL | 0.8069 mL | 1.6138 mL |
|                           | 10 mM         |      | 0.0807 mL | 0.4035 mL | 0.8069 mL |

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

### BIOLOGICAL ACTIVITY

#### Description

Platyconic Acid A is an active component of changkil saponins from platycodon grandiflorum and can be used for the research of reducing airway inflammation<sup>[1]</sup>.

#### In Vitro

Platyconic Acid A (0.5~2 μM; 30 minutes; A549 cells) inhibits PMA-induced NF-κB p65 phosphorylation, IκBα phosphorylation and degradation and Akt phosphorylation in a concentration-dependent manner<sup>[1]</sup>.

Platyconic Acid A (0.5~2 μM; 24 hours; A549 cells) decreases PMA-increased MUC5AC mRNA expression in a concentration-dependent manner<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis<sup>[1]</sup>

|                  |   |
|------------------|---|
| Cell Line:       | A549 cells  |
| Concentration:   | 0.5~2 μM  |
| Incubation Time: | 30 minutes  |
| Result:          | Inhibited PMA-induced NF-κB p65 phosphorylation, IκBα phosphorylation and |

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degradation and Akt phosphorylation in a concentration-dependent manner.

RT-PCR<sup>[1]</sup>

Cell Line: A549 cells

Concentration: 0.5~2  $\mu$ M

Incubation Time: 24 hours

Result: Decreased PMA-increased MUC5AC mRNA expression in a concentration-dependent manner.

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## REFERENCES

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[1]. Choi JH, et al. Saponins, especially platyconic acid A, from *Platycodon grandiflorum* reduce airway inflammation in ovalbumin-induced mice and PMA-exposed A549 cells. *J Agric Food Chem.* 2015;63(5):1468-1476.

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

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