



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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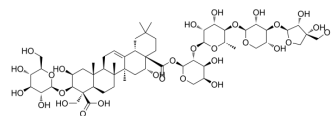
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Platyconic acid A

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



SOLVENT & SOLUBILITY

In Vitro

H₂O : 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^[1].

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^[1].

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

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

Western Blot Analysis^[1]

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

degradation and Akt phosphorylation in a concentration-dependent manner.

RT-PCR^[1]

Cell Line: A549 cells

Concentration: 0.5~2 μ M

Incubation Time: 24 hours

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

REFERENCES

[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.

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

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