

## Product Data Sheet

Product Name: Platyconic acid A

Cat. No.: GC63649

### Chemical Properties

Cas. No. 68051-23-0

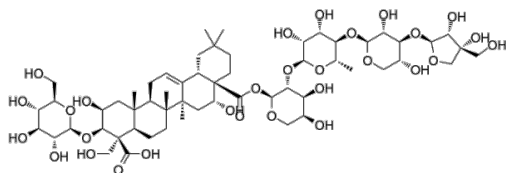
Formula  $C_{57}H_{90}O_{29}$  M.Wt 1239.31

Solubility  $H_2O$  : 25 mg/mL (20.17 mM; Need ultrasonic) Storage  $4^{\circ}C$ , protect from light

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

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].

Platyconic Acid A ( $0.5\sim 2\text{ }\mu M$ ; 30 minutes; A549 cells) inhibits PMA-induced NF- $\kappa B$  p65 phosphorylation, I $\kappa B\alpha$  phosphorylation and degradation and Akt phosphorylation in a concentration-dependent manner[1]. Platyconic Acid A ( $0.5\sim 2\text{ }\mu M$ ; 24 hours; A549 cells) decreases PMA-increased MUC5AC mRNA expression in a concentration-dependent manner[1].

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

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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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