

Saikogenin D

Chemical Properties

CAS No.:	5573-16-0
Formula:	C ₃₀ H ₄₈ O ₄
Molecular Weight:	472.71
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Saikogenin D possesses a dual effect: an inhibition of A23187-induced PGE ₂ production without a direct inhibition of cyclooxygenase activity; and an elevation of [Ca ²⁺] _i that is attributed to Ca ²⁺ release from intracellular stores. Saikogenin D has immunomodulatory effect, it can attenuate IL-6 production in LPS-stimulated alveolar macrophages of B6 more than in that of BALB.
Targets(IC ₅₀)	PGE: None Calcium Channel: None IL Receptor: None
In vitro	Saikogenin D (1-20 microM) inhibited PGE ₂ production induced by the Ca ²⁺ ionophore A23187 in a concentration-dependent manner with the IC ₅₀ of about 3 microM. Saikogenin D did not affect the conversion of arachidonic acid into PGE ₂ in microsomal preparations. On the other hand, Saikogenin D elevated [Ca ²⁺] _i in a concentration-dependent manner (10-100 microM) with the EC ₅₀ value of about 35 microM in the presence or absence of extracellular Ca ²⁺ .

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.115 mL	10.577 mL	21.155 mL
5 mM	0.423 mL	2.115 mL	4.231 mL
10 mM	0.212 mL	1.058 mL	2.115 mL
50 mM	0.042 mL	0.212 mL	0.423 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Dual effect of saikogenin D: in vitro inhibition of prostaglandin E₂ production and elevation of intracellular free Ca²⁺ concentration in C6 rat glioma cells. *Planta Medica*, 2003, 69(8):765.

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