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Zuschläge

- Mindermengenzuschlag
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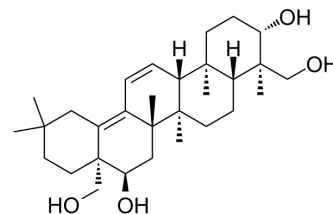
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Saikogenin D

Cat. No.:	HY-N4237
CAS No.:	5573-16-0
Molecular Formula:	C ₃₀ H ₄₈ O ₄
Molecular Weight:	472.7
Target:	Prostaglandin Receptor; Potassium Channel
Pathway:	GPCR/G Protein; Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Saikogenin D is isolated from Bupleurum chinense, has anti-inflammatory effects. Saikogenin D activates epoxigenases that converts arachidonic acid to epoxyeicosanoids and dihydroxyeicosatrienoic acids, and the metabolites secondarily inhibit prostaglandin E2 (PGE2) production. Saikogenin D results in an elevation of [Ca ²⁺] _i due to Ca ²⁺ release from intracellular stores ^{[1][2]} .
In Vitro	Saikogenin D (1-20 μM) inhibits PGE2 production induced by the Ca ²⁺ ionophore A23187 in a concentration-dependent manner with an IC ₅₀ value of 3 μM in C6 rat glioma cells ^[1] . Saikogenin D (10-100 μM) elevates [Ca ²⁺] _i in a concentration-dependent manner with a EC ₅₀ value of 35 μM in the presence or absence of extracellular Ca ²⁺ in C6 rat glioma cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Toriniwa Y, et al. Participation of epoxigenase activation in saikogenin D-induced inhibition of prostaglandin E(2) synthesis. J Pharm Pharmacol. 2006 Jun;58(6):859-66.
- [2]. Kodama Y, et al. 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 Med. 2003 Aug;69(8):765-7.

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

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