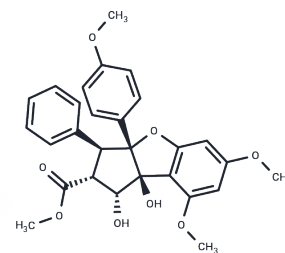


Aglafoline

Chemical Properties

CAS No. :	143901-35-3
Formula:	C ₂₈ H ₂₈ O ₈
Molecular Weight:	492.52
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Aglafoline inhibits in a concentration-dependent manner the aggregation and ATP release reaction induced in washed rabbit platelets by PAF (platelet-activating factor). The IC ₅₀ values of Aglafoline on PAF (3.6 nM)-induced platelet aggregation were about 50 μM.
Targets(IC ₅₀)	Others
In vitro	Aglafoline also inhibits [3H]PAF (3.6 nM) binding to washed rabbit platelets (IC ₅₀ : 17.8 μM). The concentration-response curve of PAF-induced platelet aggregation was shifted to the right by Aglafoline (pA ₂ : 5.97; pA ₁₀ : 5.04). Although thromboxane B ₂ formation caused by collagen and thrombin was partially suppressed by Aglafoline, thromboxane B ₂ formation caused by ionophore A23187 and arachidonic acid was not affected. Aglafoline inhibited the [3H]inositol monophosphate formation caused by PAF but not that caused by collagen or thrombin in the presence of indomethacin (20 μM).
In vivo	The cAMP content of washed rabbit platelets was not affected by Aglafoline. Rat femoral intravenous administration of Aglafoline (10 mg/kg) did not affect blood pressure. However, Aglafoline (10 mg/kg) both prophylactically and therapeutically antagonized PAF (2.5 μg/kg)-induced hypotensive shock in rats. Intravenous PAF (30 ng/kg) caused severe bronchoconstriction in guinea pigs. This effect was completely blocked by Aglafoline.

Solubility Information

Solubility	Ethanol: 100 mg/mL (203.04 mM), Sonication is recommended. DMSO: 21.43 mg/mL (43.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0304 mL	10.1519 mL	20.3037 mL
5 mM	0.4061 mL	2.0304 mL	4.0607 mL
10 mM	0.203 mL	1.0152 mL	2.0304 mL
50 mM	0.0406 mL	0.203 mL	0.4061 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ko FN, et al. PAF antagonism in vitro and in vivo by aglafoline from *Aglaia elliptifolia* Merr. Eur J Pharmacol. 1992 Jul 21;218(1):129-35.

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