Data Sheet (Cat.No.TN5238)

TargetMol
A DRUG SCREENING EXPERT

Viscidulin II

Chemical Properties

CAS No.:	92519-93-2
Formula:	C17H14O7
Molecular Weight:	330.3
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Viscidulin II can be potential therapeutic agents against P. acnes-induced skin inflammation, it can significantly suppress P. acnes-induced IL-8 and IL-1β production in THP-1 cells, concomitant intradermal injection of viscidulin II with P. acnes can effectively attenuate P. acnes-induced ear swelling, and decrease the production of IL-6 and tumor necrosis factor-α in ear homogenates.
Targets(IC_{50})	IL Receptor: None TNF-α: None
In vitro	Scutellariae radix, the root of Scutellaria baicalensis, has long been applied in traditional formulations and modern herbal medications. Propionibacterium acnes (P. acnes) in follicles can trigger inflammation and lead to the symptom of inflammatory acnes vulgaris. METHODS AND RESULTS:This study was aimed at evaluating the effect of Scutellariae radix extract and purified components isolated from it on inflammation induced by P. acnes in vitro and in vivo. The results showed the ethyl acetate (EA) soluble fraction from the partition of crude ethanolic extract from Scutellariae radix inhibited P. acnes-induced interleukin IL-8 and IL-1β production in human monocytic THP-1 cells. Seven flavones were isolated from the EA fraction by repeated chromatographies, and identified as 5,7-dihydroxy-6-methoxyflavone (FL1, oroxylin), 5,7-dihydroxy-8-methoxyflavone (FL2, wogonin), 5-hydroxy-7,8-dimethoxyflavone (FL3, 7-O-methylwogonin), 5,6'-dihydroxy-6,7,8,2'-tetramethoxy flavone (FL4, skullcapflavone II), 5,7,4'-trihydroxy-8-methoxyflavone (FL5), 5,2',6'-trihydroxy-7,8-dimethoxyflavone (FL6, Viscidulin II), and 5,7,2',5'-tetrahydroxy-8,6'-dimethoxyflavone (FL7, ganhuangenin). They all significantly suppressed P. acnes-induced IL-8 and IL-1β production in THP-1 cells, and FL2 exerted the strongest effect with half maximal inhibition (IC50) values of 8.7 and 4.9 μM, respectively. Concomitant intradermal injection of each of the seven flavones (20 μg) with P. acnes effectively attenuated P. acnes-induced ear swelling, and decreased the production of IL-6 and tumor necrosis factor-α in ear homogenates. CONCLUSIONS: Our results suggested that all the seven flavones can be potential therapeutic agents against P. acnes-induced skin inflammation.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.028 mL	15.138 mL	30.276 mL
5 mM	0.606 mL	3.028 mL	6.055 mL
10 mM	0.303 mL	1.514 mL	3.028 mL
50 mM	0.061 mL	0.303 mL	0.606 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Flavones Isolated from Scutellariae radix Suppress Propionibacterium Acnes-Induced Cytokine Production In Vitro and In Vivo. Molecules, 2015, 21(1):E15.

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