Data Sheet (Cat.No.TN1638)

TargetMol
A DRUG SCREENING EXPERT

Evodol

Chemical Properties

CAS No.:	22318-10-1
Formula:	C26H28O9
Molecular Weight:	484.5
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Evodol may as an anti-inflammatory agent or lead compound, it shows inhibitory activity on nitric oxide (NO) production in lipopolysaccharide -activated RAW264.7 macrophages. Evodol and limonin possess larvicidal activity against the Asian tiger mosquitoes with LC50 values of 52.22 and 32.43 ug/ml, respectively.
Targets(IC_{50})	NO Synthase: None
In vitro	A new limonoid compound, named evorubodinin (1), was isolated from the dried and nearly ripe fruits of Euodia rutaecarpa (Juss.) Benth. var. bodinieri (Dode) Huang (family Rutaceae), together with two known limonoid compounds, limonin (2) and evolimorutanin (3). The chemical structure of 1 was elucidated by spectroscopic method and single-crystal X-ray diffraction. The inhibitory effects of the isolated compounds 1-3 and the structurally related compounds Evodol (4), shihulimonin A1 (5), evodirutaenin (6), 12α±-hydroxyrutaevin (7), and rutaevin (8) on nitric oxide (NO) production in lipopolysaccharide-activated RAW264.7 macrophages were also assayed.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.064 mL	10.32 mL	20.64 mL
5 mM	0.413 mL	2.064 mL	4.128 mL
10 mM	0.206 mL	1.032 mL	2.064 mL
50 mM	0.041 mL	0.206 mL	0.413 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. Limonoid constituents of Euodia rutaecarpa var. bodinieri and their inhibition on NO production in lipopolysaccharide-activated RAW264.7 macrophages.J Asian Nat Prod Res. 2013;15(10):1130-8.

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