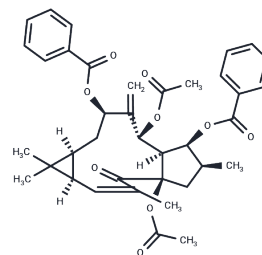


Euphorbia Factor L2

Chemical Properties

CAS No. : 218916-51-9
Formula: C₃₈H₄₂O₉
Molecular Weight: 642.73
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Euphorbia Factor L2 alleviates lipopolysaccharide-induced acute lung injury and inflammation through inhibits NF-κB activation.
Targets(IC50)	Apoptosis,NF-κB
In vivo	Euphorbia factor L2 (EFL2) on LPS-induced ALI in mice, where EFL2 attenuated pathological alterations in the lung and improved survival. Significant suppression of the recruitment and transmigration of inflammatory cells, specifically neutrophils, by 40?mg/kg of EFL2 was observed. EFL2 exerted potent anti-inflammatory effects by decreasing the levels of interleukin-1β (IL-1 β), interleukin-6 (IL-6), tumor necrosis factor-α (TNF- α), interleukin-8 (IL-8) and myeloperoxidase (MPO) in the lung and bronchioalveolar lavage fluid. Consistent with the findings in vivo, EFL2 also showed robust inhibitory effects on the production of IL-1 β, IL-6, TNF- α and IL-8 released from LPS-stimulated RAW264.7 cells in vitro. Interestingly, this effect appeared to be mediated by EFL2's inhibition of NF-κB signaling activation, but not the MAPK pathway. Not only phosphorylation of IKK α/β and IκBα was down-regulated, p65 translocation and its DNA-binding activity were also significantly suppressed by EFL2. Moreover, overexpression of p65 reversed the inhibitory effect of EFL2 in LPS-induced NF-κB activation and cytokines production. The observed anti-inflammatory bioactivity of EFL2 indicates its potential as a drug development candidate, particularly for LPS-mediated disorders of inflammation[1].

Solubility Information

Solubility	DMSO: 12 mg/mL (18.67 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5559 mL	7.7793 mL	15.5586 mL
5 mM	0.3112 mL	1.5559 mL	3.1117 mL
10 mM	0.1556 mL	0.7779 mL	1.5559 mL
50 mM	0.0311 mL	0.1556 mL	0.3112 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

Qiuping Z , Shuai Z , Xiaolan C , et al. Euphorbia factor L2 alleviates lipopolysaccharide-induced acute lung injury and inflammation in mice through the suppression of NF- κ B activation[J]. Biochemical Pharmacology, 2018, 155:

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