

## Scandoside

## Chemical Properties

CAS No.:	18842-99-4
Formula:	C <sub>16</sub> H <sub>22</sub> O <sub>11</sub>
Molecular Weight:	390.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Scandoside exerts anti-inflammatory effect via suppressing NF- $\kappa$ B and MAPK signaling pathways in LPS-induced RAW 264.7 macrophages. It also inhibits LDL-oxidation.
Targets(IC <sub>50</sub> )	MAPK: None NF- $\kappa$ B: None
In vitro	METHODS AND RESULTS: An iridoid glycoside, oldenlandoside III ( 5 ) was isolated from the n -butanol fraction of methanol extracts of the aerial parts of Oldenlandia diffusa Roxb, along with six others previously characterized iridoid glycosides; geniposidic acid ( 1 ), Scandoside ( 2 ), feretoside ( 3 ), 10- O - benzoylScandoside methyl ester ( 4 ), asperulosidic acid ( 6 ) and deacetylasperulosidic acid ( 7 ). CONCLUSIONS: Compounds 1, 2 , and 7 inhibited LDL-oxidation, and showed 63.3 $\pm$ 2.0, 62.2 $\pm$ 1.6, and 63.8 $\pm$ 1.5% inhibition, respectively, at a concentration of 20 $\mu$ g/mL.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.562 mL	12.811 mL	25.621 mL
5 mM	0.512 mL	2.562 mL	5.124 mL
10 mM	0.256 mL	1.281 mL	2.562 mL
50 mM	0.051 mL	0.256 mL	0.512 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Iridoid glycosides isolated from Oldenlandia diffusa inhibit LDL-oxidation. Archives of Pharmacal Research, 2005, 28(10):1156-1160.
2. Iridoid glucosides with insecticidal activity from Galium melanantherum. Zeitschrift für Naturforschung C, 2007, 62(7-8):597---602.

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