Data Sheet (Cat.No.TJS2216)

TargetMol
A DRUG SCREENING EXPERT

Asperglaucide

Chemical Properties

CAS No.:	56121-42-7
Formula:	C27H28N2O4
Molecular Weight:	444.53
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Asperglaucide shows some nematocidal property against M. incognita.
Targets(IC_{50})	Antifection: None
In vitro	Four new polyphenolic glycosides (1-4) were isolated from the BuOH extract of the bark of Walsura yunnanenis C. Y. Wu. METHODS AND RESULTS: These compounds comprise two lignans, i.e., the 9-O-α-l-arabinopyranosides 1 and 2 of (-)-isolariciresinol and of (+)-5-methoxyisolariciresinol, respectively, and the two phenolic glycosides 3,4,5-trimethoxyphenyl 2-O-(α-l-fucopyranosyl)-β-d-glucopyranoside (3) and 3,5-dihydroxyphenyl 6-O-(4-hydroxy-3,5-dimethoxybenzoyl)-β-d-glucopyranoside (walsuraside; 4). In addition, three known compounds, 3,4,5-trimethoxyphenyl β-d-glucopyranoside, Asperglaucide, and butyl α-d-fructofuranoside were identified. Their structures were elucidated spectroscopically and by chemical transformation (hydrolysis). CONCLUSIONS: The new compounds 1, 2, and 4 displayed significant antioxidant activities, with IC50 values in the range of ca. 42 to 49 μg/ml.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.250 mL	11.249 mL	22.497 mL
5 mM	0.450 mL	2.250 mL	4.499 mL
10 mM	0.225 mL	1.125 mL	2.250 mL
50 mM	0.045 mL	0.225 mL	0.450 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. New Antioxidant Phenolic Glycosides from Walsura yunnanensis. Chemistry & Biodiversity,2006,3(2):224-230.
2. Isolamento e avaliação da atividade nematicida de constituintes químicos de Mucuna cinerea contra Meloidogyne incognita e Heterodera glycines. Quím Nova, 2003, 26(3):335-9

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