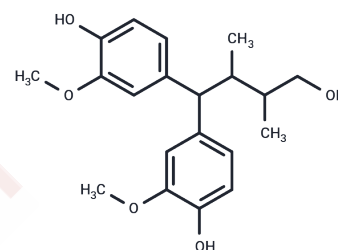


4,4-di(4-hydroxy-3-methoxyphenyl)-2,3-dimethylbutanol

Chemical Properties

CAS No. :	913643-31-9
Formula:	C ₂₀ H ₂₆ O ₅
Molecular Weight:	346.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	4,4-di(4-Hydroxy-3-methoxyphenyl)-2,3-dimethylbutanol has antioxidant and potential cytotoxic abilities, it also shows inhibition against HIV-1 integrase.
In vitro	Schisandra propinqua (Wall.) Baill.(Schisandraceae) is widely used as a Chinese folk medicine. METHODS AND RESULTS: In this study, activity-guided fractionation of the ethanol extract from the stem of Schisandra propinqua led to the isolation of four extracts. Subsequently, a neolignan 4,4-di(4-hydroxy-3-methoxyphenyl)-2,3-dimethylbutanol was isolated from the EtOAc part of the stem of Schisandra propinqua, the free radical scavenging activities of which were researched in vitro. The present work demonstrated that extracts and pure compound possessed scavenging activities to DPPH, superoxide anions and hydroxy radical, and could depress lipid peroxidation reaction induced by oxygen radical produced by the Fe ²⁺ /cysteine system in vitro. CONCLUSIONS: This suggests that the traditional application of Schisandra propinqua in China may be related to its antioxidant activities, and the EtOAc part of the stems of Schisandra propinqua can be utilized as an effective source of antioxidants.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8867 mL	14.4333 mL	28.8667 mL
5 mM	0.5773 mL	2.8867 mL	5.7733 mL
10 mM	0.2887 mL	1.4433 mL	2.8867 mL
50 mM	0.0577 mL	0.2887 mL	0.5773 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Antioxidant isolated from Schisandra propinqua (Wall.) Baill. Biol Res. 2009;42(3):351-6.

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