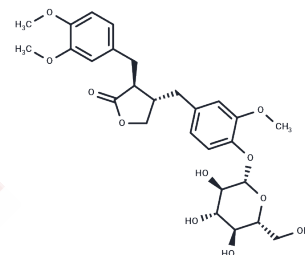


Styraxlignolide F

Chemical Properties

CAS No. :	823214-06-8
Formula:	C ₂₇ H ₃₄ O ₁₁
Molecular Weight:	534.55
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	3-Hydroxymandelic Acid is a metabolite of Phenylephrine. 3-Hydroxymandelic Acid is a metabolite of Phenylephrine, which is an α -receptor agonist.
Targets(IC50)	Others
In vitro	Known compounds, taraxerol (6), syringin (7), and (-)-pinoresinol glucoside (8), were also obtained. The structures of styraxlignolides B-F were determined as 2 α -(4'-hydroxy-3'-methoxyphenyl)-6 α -(3',4'-methylenedioxyphenyl)-8-oxo-3,7-dioxabicyclo[3.3.0]octane 4'-O-(β -D-glucopyranoside) (1), (2S,3S)-2 α -(3'-hydroxy-4'-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-O-(β -D-glucopyranoside) (2), (2S,3S)-2 α -(4'-hydroxy-3'-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-O-(β -D-glucopyranoside) (3), (2S,3S)-2 α -(4'-hydroxy-3'-methoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-O-(β -D-glucopyranoside) (4), and (2S,3S)-2 α -(3',4'-dimethoxybenzyl)-3 β -(4'-hydroxy-3'-methoxybenzyl)- γ -butyrolactone 4'-O-(β -D-glucopyranoside) (5) by spectroscopic means including 2D NMR.

Solubility Information

Solubility	DMSO: 55 mg/mL (102.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.74 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8707 mL	9.3537 mL	18.7073 mL
5 mM	0.3741 mL	1.8707 mL	3.7415 mL
10 mM	0.1871 mL	0.9354 mL	1.8707 mL
50 mM	0.0374 mL	0.1871 mL	0.3741 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

New furofuran and butyrolactone lignans with antioxidant activity from the stem bark of *Styrax japonica*. *J Nat Prod.* 2004 Dec;67(12):1980-4.

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