

p-Hydroxy-5,6-dehydrokawain

Chemical Properties

CAS No.:	39986-86-2
Formula:	C ₁₄ H ₁₂ O ₄
Molecular Weight:	244.2
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	4'-Hydroxy-5,6-dehydrokawain shows significant antiproliferative activity against murine colon 26-L5 carcinoma.
Targets(IC ₅₀)	others: None
In vitro	Chromatographic separation of part of an EtOH extract of the seeds of <i>Alpinia blepharocalyx</i> resulted in the isolation of six new (1-6) and two known (7, 8) diarylheptanoids together with 12 known compounds. The structures of the new compounds, including their absolute stereochemistry, were elucidated by spectroscopic and chemical methods as (3S,5S)- (1) and (3S,5R)-3-hydroxy-5-methoxy-1-(4-hydroxyphenyl)-7-phenyl-6E-heptene (2), (3S,5S)- (3) and (3S,5R)-3-hydroxy-5-ethoxy-1-(4-hydroxyphenyl)-7-phenyl-6E-heptene (4), (3S)-methoxy-1,7-bis(4-hydroxyphenyl)-6E-hepten-5-one (5), and 1,7-bis(4-hydroxyphenyl)hepta-4E,6E-dien-3-one (6).

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	4.095 mL	20.475 mL	40.95 mL
5 mM	0.819 mL	4.095 mL	8.19 mL
10 mM	0.41 mL	2.048 mL	4.095 mL
50 mM	0.082 mL	0.41 mL	0.819 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. Six new diarylheptanoids from the seeds of *Alpinia blepharocalyx*. *Journal of Natural Products*, 2001, 64(3):289-293.

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