

## Caesalmin E

**Chemical Properties**

CAS No.:	204185-91-1
Formula:	C <sub>26</sub> H <sub>36</sub> O <sub>9</sub>
Molecular Weight:	492.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Caesalmin E shows anti-Para3 virus activity.
Targets(IC <sub>50</sub> )	Antifection: None
In vitro	A bioassay-guided study led to the isolation of five new cassane furanoditerpenes, designated as caesalmin C (1), caesalmin D (2), Caesalmin E (3), caesalmin F (4), and caesalmin G (5), along with stigmasterol (6) from the seeds of <i>Caesalpinia minax</i> . METHODS AND RESULTS: The (1)H and (13)C NMR spectra were completely assigned by using a combination of 2D NMR analyses. The structures of all five furanoditerpenes were confirmed by X-ray analyses. The structure of 6 was verified by X-ray analysis for the first time. CONCLUSIONS: The bioassay results showed that the anti-Para3 virus activity of tetracyclic furanoditerpenoids 1-4 is more potent than that of the furanoditerpenoid lactone 5, which is in turn better than 6. As the major components of the plant possess significant potent activity, it may be feasible to develop new antiviral agents from this source.

**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	2.030 mL	10.151 mL	20.302 mL
5 mM	0.406 mL	2.030 mL	4.060 mL
10 mM	0.203 mL	1.015 mL	2.030 mL
50 mM	0.041 mL	0.203 mL	0.406 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. New antiviral cassane furanoditerpenes from *Caesalpinia minax*. *J Nat Prod.* 2001 Oct;64(10):1266-72.

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