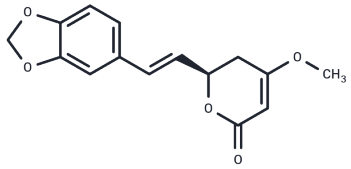
# Data Sheet (Cat.No.TN2347)

TargetMol
YOUR TARGET MOLECULES

Methylsticin

## Chemical Properties



CAS No. : 495-85-2

Formula: C15H14O5

Molecular Weight: 274.27

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

| | |
|---|---|
| Description | Methysticin is a kavalactone isolated from the kava roots. Methylsticin (Methysticin) exhibit osteoclast formation inhibitory activity. It inhibits activation of NF-χB in lung adenocarcinoma tissue, activates Nrf2 in neurons and astroglia, decreases peak amplitude of voltage-gated Na+ channels in hippocampal neurons, and suppresses growth of Fusarium, Trichoderma, and Colletotrichum. |
| Targets(IC50) | Others |
| In vitro | The kavalactones, and compositions thereof, are useful in mediating osteoclast activity, and as such, are useful in treating or preventing disease or disease symptoms mediated by osteoclast activity. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 22.5 mg/mL (82.04 mM),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.646 mL | 18.2302 mL | 36.4604 mL |
| 5 mM | 0.7292 mL | 3.646 mL | 7.2921 mL |
| 10 mM | 0.3646 mL | 1.823 mL | 3.646 mL |
| 50 mM | 0.0729 mL | 0.3646 mL | 0.7292 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.

Reference

Shoujun Chen, et al. Methods of inhibiting osteoclast activity. US20030229137A1.

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