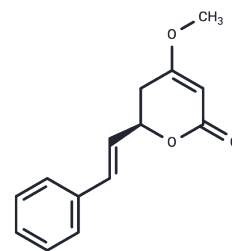


(+)-Kavain

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 500-64-1 |
| Formula: | C ₁₄ H ₁₄ O ₃ |
| Molecular Weight: | 230.26 |
| 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 | (+)-Kavain ((R)-KAWAIN) is one of the six major kavalactones found in the Piper methysticum (kava) plant; reversible inhibitor of MAO-B. |
| Targets(IC50) | Calcium Channel,GABA Receptor,Monoamine Transporter,Sodium Channel |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 45 mg/mL (195.43 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 (8.69 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 | 4.3429 mL | 21.7146 mL | 43.4292 mL |
| 5 mM | 0.8686 mL | 4.3429 mL | 8.6858 mL |
| 10 mM | 0.4343 mL | 2.1715 mL | 4.3429 mL |
| 50 mM | 0.0869 mL | 0.4343 mL | 0.8686 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

Uebelhack R, et al. Inhibition of platelet MAO-B by kava pyrone-enriched extract from Piper methysticum Forster (kava-kava). *Pharmacopsychiatry*. 1998 Sep;31(5):187-92.

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Ma Y, et al. Desmethoxyyangonin and dihydromethysticin are two major pharmacological kavalactones with marked activity on the induction of CYP3A23. *Drug Metab Dispos*. 2004 Nov;32(11):1317-24.

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