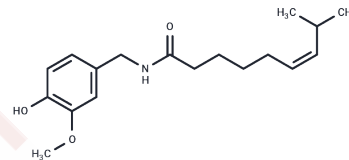


(Z)-Capsaicin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 25775-90-0 |
| Formula: | C ₁₈ H ₂₇ NO ₃ |
| Molecular Weight: | 305.41 |
| 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 | (Z)-Capsaicin (Zucapsaicin) is a medication used to treat osteoarthritis of the knee and Others neuropathic pain.(Z)-Capsaicin is a synthetic cis isomer of natural capsaicin that has shown therapeutic efficacy in pain accompanying osteoarthritis of the knee. |
| Targets(IC50) | HSV,TRP/TRPV Channel |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 163.3 mg/mL (534.69 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 (6.55 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 | 3.2743 mL | 16.3714 mL | 32.7429 mL |
| 5 mM | 0.6549 mL | 3.2743 mL | 6.5486 mL |
| 10 mM | 0.3274 mL | 1.6371 mL | 3.2743 mL |
| 50 mM | 0.0655 mL | 0.3274 mL | 0.6549 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

Sałat K, et al. Expert Opin Investig Drugs. 2014 Oct;23(10):1433-40.

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