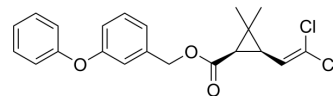


1R-cis-Permethrin

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-B0887C | | |
| CAS No.: | 54774-45-7 | | |
| Molecular Formula: | C ₂₁ H ₂₀ Cl ₂ O ₃ | | |
| Molecular Weight: | 391.29 | | |
| Target: | Parasite | | |
| Pathway: | Anti-infection | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (170.39 mM; Need ultrasonic)

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 2.5556 mL | 12.7782 mL | 25.5565 mL |
| | 5 mM | 0.5111 mL | 2.5556 mL | 5.1113 mL |
| | 10 mM | 0.2556 mL | 1.2778 mL | 2.5556 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2 mg/mL (5.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2 mg/mL (5.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (5.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1R-cis-Permethrin is an insecticide and neurotoxin. 1R-cis-Permethrin affects neuron membranes by prolonging sodium channel activation^[1].

REFERENCES

[1]. Xiao X, et al. Exposure to permethrin promotes high fat diet-induced weight gain and insulin resistance in male C57BL/6J mice. Food Chem Toxicol. 2018 Jan;111:405-

Caution: Product has not been fully validated for medical applications. For research use only.

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