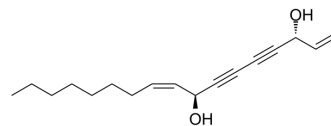


(+)-(3R,8S)-Falcarindiol

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-N1976 | | |
| CAS No.: | 225110-25-8 | | |
| Molecular Formula: | C ₁₇ H ₂₄ O ₂ | | |
| Molecular Weight: | 260.37 | | |
| Target: | Bacterial | | |
| Pathway: | Anti-infection | | |
| Storage: | Pure form | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 100 mg/mL (384.07 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 3.8407 mL | 19.2034 mL | 38.4069 mL |
| | | 5 mM | 0.7681 mL | 3.8407 mL | 7.6814 mL |
| 10 mM | | 0.3841 mL | 1.9203 mL | 3.8407 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | (+)-(3R,8S)-Falcarindiol is a polyacetylene found in carrots, has antimycobacterial activity, with an IC ₅₀ of 6 μM and MIC of 24 μM against Mycobacterium tuberculosis H37Ra ^{[1][2]} . Antineoplastic and anti-inflammatory activity ^[2] . |
| IC₅₀ & Target | IC ₅₀ : 6 μM (Mycobacterium tuberculosis H37Ra) ^[1] |

REFERENCES

[1]. O'Neill T, et al. The Canadian medicinal plant *Heracleum maximum* contains antimycobacterial diynes and furanocoumarins. *J Ethnopharmacol.* 2013 May 2;147(1):232-7.

[2]. Kobaek-Larsen M, et al. Effect of the dietary polyacetylenes falcarinol and falcarindiol on the gut microbiota composition in a rat model of colorectal cancer. BMC Res Notes. 2018 Jun 27;11(1):411.

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

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