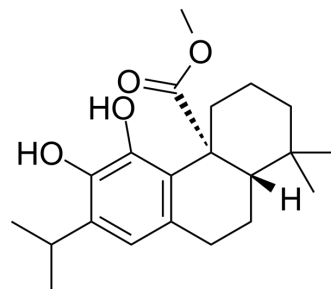


Methyl carnosate

| | |
|---------------------------|--|
| Cat. No.: | HY-136150 |
| CAS No.: | 82684-06-8 |
| Molecular Formula: | C ₂₁ H ₃₀ O ₄ |
| Molecular Weight: | 346.46 |
| Target: | Bacterial |
| Pathway: | Anti-infection |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

| In Vitro | DMSO : 100 mg/mL (288.63 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|------------|---------------|---------------|--|------|------|-------|---------------------------|------|-----------|------------|------------|------|-----------|-----------|-----------|-------|-----------|-----------|-----------|
| | Ethanol : 50 mg/mL (144.32 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.8863 mL</td> <td>14.4317 mL</td> <td>28.8634 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5773 mL</td> <td>2.8863 mL</td> <td>5.7727 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2886 mL</td> <td>1.4432 mL</td> <td>2.8863 mL</td> </tr> </tbody> </table> | Solvent | Mass | Concentration | | | 1 mg | 5 mg | 10 mg | Preparing Stock Solutions | 1 mM | 2.8863 mL | 14.4317 mL | 28.8634 mL | 5 mM | 0.5773 mL | 2.8863 mL | 5.7727 mL | 10 mM | 0.2886 mL | 1.4432 mL | 2.8863 mL |
| | Solvent | | | Mass | Concentration | | | | | | | | | | | | | | | | | |
| 1 mg | | 5 mg | 10 mg | | | | | | | | | | | | | | | | | | | |
| Preparing Stock Solutions | 1 mM | 2.8863 mL | 14.4317 mL | 28.8634 mL | | | | | | | | | | | | | | | | | | |
| | 5 mM | 0.5773 mL | 2.8863 mL | 5.7727 mL | | | | | | | | | | | | | | | | | | |
| | 10 mM | 0.2886 mL | 1.4432 mL | 2.8863 mL | | | | | | | | | | | | | | | | | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | | | | | | | | | | | | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.22 mM); Clear solution | | | | | | | | | | | | | | | | | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Methyl carnosate is a diterpene isolated from <i>Salvia officinalis</i> or <i>Rosmarinus officinalis</i> . Methyl carnosate has potent antioxidant and anti-bacterial activity ^{[1][2]} . |
| IC₅₀ & Target | <i>Bacillus cereus</i> ^[2] |
| In Vitro | Methyl carnosate has antibacterial activity against <i>Bacillus cereus</i> ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Marie-Elisabeth Cuvelier, et al. Antioxidant Constituents in Sage (*Salvia officinalis*). J. Agric. Food Chem. 1994, 42, 005-609 005.

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

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