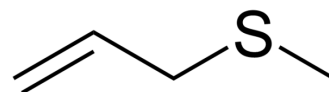


Allyl methyl sulfide

| | |
|--------------------|--|
| Cat. No.: | HY-128447 |
| CAS No.: | 10152-76-8 |
| Molecular Formula: | C ₄ H ₈ S |
| Molecular Weight: | 88.17 |
| Target: | Bacterial; Endogenous Metabolite |
| Pathway: | Anti-infection; Metabolic Enzyme/Protease |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| In Vitro | DMSO : 100 mg/mL (1134.17 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------------------|------------|------------|-------------|-------|------|--|------------|------------|-------------|------|--|-----------|------------|------------|-------|--|-----------|-----------|------------|--|--|--|
| | Preparing Stock Solutions | <table border="1"> <thead> <tr> <th>Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td></td> <td>11.3417 mL</td> <td>56.7086 mL</td> <td>113.4173 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>2.2683 mL</td> <td>11.3417 mL</td> <td>22.6835 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>1.1342 mL</td> <td>5.6709 mL</td> <td>11.3417 mL</td> </tr> </tbody> </table> | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg | 1 mM | | 11.3417 mL | 56.7086 mL | 113.4173 mL | 5 mM | | 2.2683 mL | 11.3417 mL | 22.6835 mL | 10 mM | | 1.1342 mL | 5.6709 mL | 11.3417 mL | | | |
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| | | 1 mM | | 11.3417 mL | 56.7086 mL | 113.4173 mL | | | | | | | | | | | | | | | | | | | |
| | | 5 mM | | 2.2683 mL | 11.3417 mL | 22.6835 mL | | | | | | | | | | | | | | | | | | | |
| 10 mM | | 1.1342 mL | 5.6709 mL | 11.3417 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: ≥ 2.08 mg/mL (23.59 mM); Clear solution | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (23.59 mM); Clear solution | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (23.59 mM); Clear solution | | | | | | | | | | | | | | | | | | | | | | | | |

BIOLOGICAL ACTIVITY

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|---------------------------|--|
| Description | Allyl methyl sulfide is a bioactive organosulfur compound found in garlic. Allyl methyl sulfide exhibits antibacterial, antioxidant and anticancer properties ^[1] . |
| IC ₅₀ & Target | Human Endogenous Metabolite |

REFERENCES

[1]. Sujithra K, et al. Allyl methyl sulfide, an organosulfur compound alleviates hyperglycemia mediated hepatic oxidative stress and inflammation in streptozotocin - induced experimental rats. Biomed Pharmacother. 2018 Nov;107:292-302.

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

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