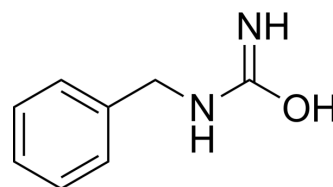


Benzylurea

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-W010253 | | |
| CAS No.: | 538-32-9 | | |
| Molecular Formula: | C ₈ H ₁₀ N ₂ O | | |
| Molecular Weight: | 150.18 | | |
| Target: | Bacterial | | |
| 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 : 100 mg/mL (665.87 mM; Need ultrasonic)
 Ethanol : 50 mg/mL (332.93 mM; Need ultrasonic)
 H₂O : 3.33 mg/mL (22.17 mM; Need ultrasonic)

| | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg |
|------------------------------|--------------------------|------|-----------|------------|------------|
| | | | | | |
| Preparing Stock Solutions | 1 mM | | 6.6587 mL | 33.2934 mL | 66.5868 mL |
| | 5 mM | | 1.3317 mL | 6.6587 mL | 13.3174 mL |
| | 10 mM | | 0.6659 mL | 3.3293 mL | 6.6587 mL |

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

In Vivo

1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (33.29 mM); Clear solution
2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 5 mg/mL (33.29 mM); Clear solution
3. Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 5 mg/mL (33.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Benzylurea is a benzylamide. Benzylurea can be isolated from *Salvadora persica* stems. Benzylurea has antimicrobial activity. Benzylurea can be used for the research of various biochemical studies^[1].

REFERENCES

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

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