2-Phenylacetophenone

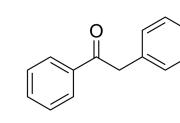
| Cat. No.: | HY-Y1777 | | |
|--------------------|-----------------|-------|----------|
| CAS No.: | 451-40-1 | | |
| Molecular Formula: | $C_{14}H_{12}O$ | | |
| Molecular Weight: | 196.24 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |
| | | | |

SOLVENT & SOLUBILITY

| | Preparing Stock Solutions | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | | |
|------|--|--|--------------------|-----------------|------------|--|--|
| | | 1 mM | 5.0958 mL | 25.4790 mL | 50.9580 mL | | |
| | | 5 mM | 1.0192 mL | 5.0958 mL | 10.1916 mL | | |
| | | 10 mM | 0.5096 mL | 2.5479 mL | 5.0958 mL | | |
| | Please refer to the so | lubility information to select the app | propriate solvent. | | | | |
| /ivo | | one by one: 10% DMSO >> 40% PEC g/mL (12.74 mM); Clear solution | G300 >> 5% Tween-8 | 0 >> 45% saline | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution | | | | | | |
| | | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution | | | | | |

| BIOLOGICAL ACTIVITY | | | | |
|---------------------|--|--|--|--|
| BIOLOGICAL ACTIVITY | | | | |
| Description | 2-Phenylacetophenone has broad-spectrum efflux pump inhibition activity. 2-Phenylacetophenone is a benzoin derivative used as a photoinitiator in vinyl polymerization ^[1] . | | | |
| In Vitro | 2-Phenylacetophenone displays antibacterial activity against B. subtilis, M. smegmatis, and M. aurum with MICs of 500 μg/mL ^[1] . 2-Phenylacetophenone (1000 μg/mL) inhibits biofilm formation for M. smegmatis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |







REFERENCES

[1]. Hellewell L, et al. Chalcones, stilbenes and ketones have anti-infective properties via inhibition of bacterial drug-efflux and consequential synergism with antimicrobial agents. Access Microbiol. 2020 Feb 18;2(4):acmi000105.

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

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