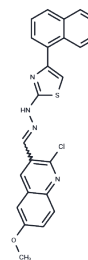


Antibacterial agent 132

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 3026790-18-8 |
| Formula: | C ₂₄ H ₁₇ ClN ₄ O ₅ |
| Molecular Weight: | 444.94 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|--|
| Description | Antibacterial agent 132 showed antimicrobial activity against <i>C. parapsilosis</i> (ATCC 22019) and <i>C. krusei</i> (ATCC 6258) with MIC ₉₀ values of <0.06 µg/mL and 62.50 µg/mL, respectively. Antibacterial agent 132 inhibited aromatase enzyme with IC ₅₀ of 0.047 µM. |
| Targets(IC ₅₀) | Antibacterial, Antifungal, Cytochromes P450 |
| In vitro | Having cytotoxicity against the NIH/3T3 healthy cell line with an IC ₅₀ of 10 µM, Antibacterial agent 132 (compound 4j)[1]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 55 mg/mL (123.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2475 mL | 11.2375 mL | 22.4749 mL |
| 5 mM | 0.4495 mL | 2.2475 mL | 4.495 mL |
| 10 mM | 0.2247 mL | 1.1237 mL | 2.2475 mL |
| 50 mM | 0.0449 mL | 0.2247 mL | 0.4495 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Asaf Evrim Evren, et al. Investigation of Novel Quinoline-Thiazole Derivatives as Antimicrobial Agents: In Vitro and In Silico Approaches. ACS Omega. 2022 Dec 29;8(1):1410-1429.

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