

LW3

Chemical Properties

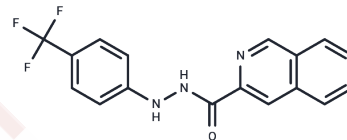
CAS No. : 2803367-68-0

Formula: C₁₇H₁₂F₃N₃O

Molecular Weight: 331.29

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|--|
| Description | LW3 is an effective broad-spectrum antifungal compound. LW3 showed antifungal activity against <i>B. cinerea</i> , <i>R. solani</i> , <i>S. sclerotiorum</i> and <i>F. graminearum</i> , with EC ₅₀ values of 0.54, 0.09, 1.52 and 2.65 mg/L, respectively. |
| Targets(IC ₅₀) | Antifungal |

Solubility Information

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|---------------------|--|
| Solubility | DMSO: 45 mg/mL (135.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 2 mg/mL (6.04 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 3.0185 mL | 15.0925 mL | 30.185 mL |
| 5 mM | 0.6037 mL | 3.0185 mL | 6.037 mL |
| 10 mM | 0.3019 mL | 1.5093 mL | 3.0185 mL |
| 50 mM | 0.0604 mL | 0.3019 mL | 0.6037 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

Yang C, et al. Bioactivity-Guided Subtraction of MIQOX for Easily Available Isoquinoline Hydrazides as Novel Antifungal Candidates. J Agric Food Chem. 2023 Aug 2;71(30):11341-11349.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481