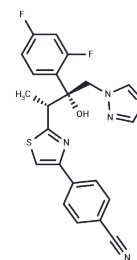


Ravuconazole

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 182760-06-1 |
| Formula: | C ₂₂ H ₁₇ F ₂ N ₅ O ₅ |
| Molecular Weight: | 437.47 |
| 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 | Ravuconazole (ER-30346) is a potent triazole antifungal that potently inhibits a wide range of fungi. |
| Targets(IC50) | Antifungal |
| In vitro | The in vitro activity of Ravuconazole against 80 clinical isolates of <i>Aspergillus</i> was compared with that of itraconazole and amphotericin B, using a validated microtiter method. Geometric mean MICs (in microg/ml) were as follows: 1.71 for Ravuconazole, 0.67 for itraconazole, and 0.63 for amphotericin B. The range of concentrations of each drug was 0.125 to >16 microg/ml. <i>Aspergillus fumigatus</i> was significantly more susceptible to Ravuconazole (P 0.05) than <i>A. terreus</i> and <i>A. flavus</i> . No Ravuconazole-resistant <i>A. fumigatus</i> isolates were identified, though eight itraconazole-resistant (MIC, >8 microg/ml) isolates were. Ravuconazole is active against <i>Aspergillus</i> spp. at slightly high concentrations compared with itraconazole and amphotericin B[1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 50 mg/mL (114.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.57 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 | 2.2859 mL | 11.4294 mL | 22.8587 mL |
| 5 mM | 0.4572 mL | 2.2859 mL | 4.5717 mL |
| 10 mM | 0.2286 mL | 1.1429 mL | 2.2859 mL |
| 50 mM | 0.0457 mL | 0.2286 mL | 0.4572 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

Moore C B , Walls C M , Denning D W . In Vitro Activity of the New Triazole BMS-207147 against Aspergillus Species in Comparison with Itraconazole and Amphotericin B[J]. Antimicrobial Agents and Chemotherapy, 2000, 44(2):441-443.

Fung-Tomc J C , Huczko E , Minassian B , et al. In vitro activity of a new oral triazole, BMS-207147 (ER-30346)[J]. Antimicrobial Agents and Chemotherapy, 1998, 42(2):313-318.

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