
Product Data Sheet

Product Name: T-2307
Cat. No.: GC63675

Chemical Properties

Cas. No. 873546-31-7

Formula $C_{25}H_{35}N_5O_2$ M.Wt 437.58

Solubility DMSO : 50 mg/mL (114.26 mM; ultrasonic and adjust pH to 3 with HCl) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

T-2307, an arylamidine, has antifungal activities in vitro and in vivo. T-2307 exhibits broad-spectrum activity against clinically significant pathogens, including *Candida* species (MIC range, 0.00025 to 0.0078 µg/ml), *Cryptococcus neoformans* (MIC range, 0.0039 to 0.0625 µg/ml), and *Aspergillus* species (MIC range, 0.0156 to 4 µg/mL) [1].

T-2307 exhibits potent activity against fluconazole-resistant and fluconazole-susceptible-dose-dependent *Candida albicans* strains as well as against azole-susceptible strains[1]. T-2307 shows efficacy in a murine model of *Candida glabrata* infection despite in vitro trailing growth phenomena[2].

In mouse models of disseminated candidiasis, cryptococcosis, and aspergillosis, the ED50 of T-2307 were 0.00755, 0.117, and 0.391 mg/kg, respectively[1].

[1]. Junichi Mitsuyama, et al. In vitro and in vivo antifungal activities of T-2307, a novel arylamidine. *Antimicrob Agents Chemother.* 2008 Apr;52(4):1318-24.

[2]. Eio Yamada, et al. T-2307 shows efficacy in a murine model of *Candida glabrata* infection despite in vitro trailing growth phenomena. *Antimicrob Agents Chemother.* 2010 Sep;54(9):3630-4.

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

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