

Product Data Sheet

Product Name: E1210
Cat. No.: GC38908

Chemical Properties

Cas. No. 936339-60-5

SMILES NC1=NC=CC=C1C2=CC(CC3=CC=C(COC4=NC=CC=C4)C=C3)=NO2

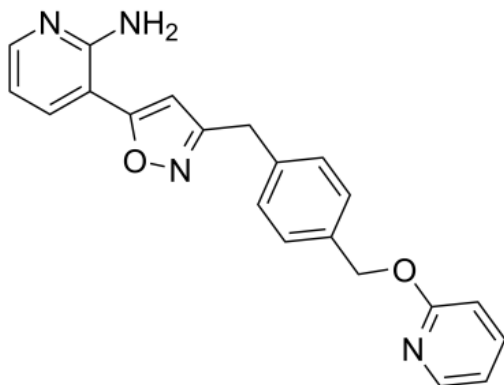
Formula $C_{21}H_{18}N_4O_2$ M.Wt 358.39

Solubility DMSO: 100 mg/mL (279.03 mM) 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

E1210 is a first-in-class, broad-spectrum and orally active antifungal. E1210 has a mechanism of

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

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action-inhibition of fungal glycosylphosphatidylinositol (GPI) biosynthesis[1][2].

E1210 inhibits the inositol acylation activity of *C. albicans* Gwt1p and *A. fumigatus* Gwt1p with IC50s of 0.3 to 0.6 μ M but has no inhibitory activity against human Pig-Wp even at concentrations as high as 100 μ M. To confirm the inhibition of fungal glycosylphosphatidylinositol (GPI) biosynthesis, expression of ALS1 protein, a GPI-anchored protein, on the surfaces of *C. albicans* cells treated with E1210 is studied and shown to be significantly lower than that on untreated cells. E1210 inhibits germ tube formation, adherence to polystyrene surfaces, and biofilm formation of *C. albicans* at concentrations above its MIC[1].

E1210 (2.5 mg/kg, 5 mg/kg and 10 mg/kg; oral administration; twice daily; for 3 days; specific-pathogen-free female ICR mice) treatment reduces the number of viable *C. albicans* cells in the oral cavity in a dose-dependent manner[2]. Animal Model: Specific-pathogen-free female ICR mice (5 weeks; ~25 g) with *C. albicans*[2]

[1]. Watanabe NA, et al. E1210, a new broad-spectrum antifungal, suppresses *Candida albicans* hyphal growth through inhibition of glycosylphosphatidylinositol biosynthesis. *Antimicrob Agents Chemother.* 2012 Feb;56(2):960-71. [2]. Hata K, et al. Efficacy of oral E1210, a new broad-spectrum antifungal with a novel mechanism of action, in murine models of candidiasis, aspergillosis, and fusariosis. *Antimicrob Agents Chemother.* 2011 Oct;55(10):4543-51.

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