

Product Data Sheet

Product Name: CAY10742

Cat. No.: GC47052

Chemical Properties

Cas. No. 1649473-91-5

SMILES FC(C=C1)=CC=C1OC(C=C2)=CC=C2C3=NOC(C4=CC=C5C(C=CN5)=C4)=N3

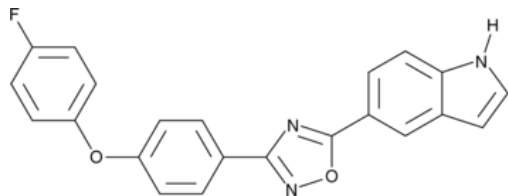
Formula C₂₂H₁₄FN₃O₂ M.Wt 371.4

Solubility DMF: 11mg/mL, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:2): 0.3mg/mL, DMSO: 10mg/mL

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

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

Structure



Background

CAY10742 is an orally bioavailable oxadiazole antibiotic.¹ It is active against the Gram-positive bacteria *S. aureus*, *S. epidermidis*, *S. haemolyticus*, *B. cereus*, *B. licheniformis*, *E. faecalis*, and *E. faecium* (MICs = 1-4 µg/ml), including laboratory strains and clinical isolates with varying degrees of resistance to methicillin, vancomycin, linezolid, and other antibiotics. CAY10742 (40 mg/kg) reduces the number of bacteria in mouse neutropenic thigh models of linezolid-sensitive or -resistant methicillin-resistant *S. aureus* (MRSA) infection.

1. Boudreau, M.A., Ding, D., Meisel, J.E., et al. Structure-activity relationship for the oxadiazole class of antibacterials. *Med. Chem. Lett.* 11(3):322-326 (2019)

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

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