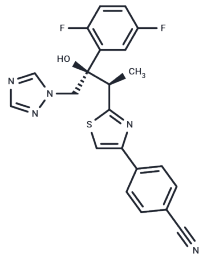
Data Sheet (Cat.No.T2305)

TargetMol

Isavuconazole

Chemical Properties



CAS No. : 241479-67-4

Formula: C22H17F2N5OS

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	Isavuconazole (RO-0094815)(BAL-4815; RO-0094815) is the active component of the new azole antifungal agent BAL8557 with MIC(50)s/MIC(90)s ranged from 0.002/0.004 mg/liter for C. albicans to 0.25/0.5 mg/liter for C. glabrata.
Targets(IC50)	Antibiotic,Antifungal,Cytochromes P450
Kinase Assay	SP2509 activity assays: Test compounds are diluted to 20 × the desired test concentration in 100% DMSO and 2.5?μL of the diluted drug sampleis added to a black 384-well plate. The LSD1 enzyme stock is diluted 17-fold with assay buffer and 40?μL of the diluted LSD1 enzyme is added to the appropriate wells. Substrate, consisting of horseradish peroxidase, dimethyl K4 peptide corresponding to the first 21 amino acids of the N-terminal tail of histone H3, and 10-acetyl-3,7-dihydroxyphenoxazine is then added to wells. Resorufin is analyzed on an Envision plate reader with an excitation wavelength of 530?nm and an emission wavelength of 595?nm. The activity of SP2509 on the other oxidases is determined by using commercially available kits. The glucose oxidase activity (which also noncovalently binds FAD in an elongate conformation), is determined using the glucose oxidase kit. The MAO assays are performed using the MAO-glo kit with MAO-A and MAO-B.

Solubility Information

Solubility	DMSO: 250 mg/mL (571.47 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: 10 mg/mL (22.86 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (22.86 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (22.86 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (22.86 mM),Solution. *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.*

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

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