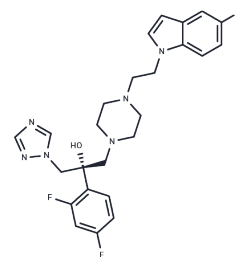


S-F24

## Chemical Properties

CAS No. : 2946669-78-7  
 Formula: C<sub>25</sub>H<sub>27</sub>BrF<sub>2</sub>N<sub>6</sub>O  
 Molecular Weight: 545.42  
 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	S-F24 is a broad-spectrum antifungal agent that demonstrates potent inhibition of CYP3A4, with an IC <sub>50</sub> of 0.4 μM. It exhibits a favorable safety profile, characterized by high selectivity, minimal hemolytic effects, and a reduced propensity for resistance development. S-F24 is useful for fungal infection research [1].
Targets(IC50)	Others,Antifungal
In vitro	S-F24 exhibits low cytotoxicity towards mammalian cells at concentrations of 10-30 μM over 48 hours [1]. Additionally, an 8-fold increase in the MIC <sub>80</sub> value against <i>C. albicans</i> SC5314 was observed when treated with S-F24 at 0.002 μg/mL over 20 passages [1]. Moreover, S-F24 at a concentration of 0.004 μg/mL for 16 hours inhibited ergosterol synthesis in <i>C. albicans</i> SC5314 by 92.03% [1].
In vivo	S-F24 (1.5 mg/kg, i.p., once daily for 5 days) was extensively used to treat invasive fungal infections caused by <i>C. albicans</i> SC5314, <i>A. fumigatus</i> CGMCC3.7795, and resistant <i>C. albicans</i> 24D in female IRC mice [1]. Additionally, S-F24 at dosages of 0.5 and 1 mg/kg, administered intraperitoneally once daily for 5 days, was highly effective in inhibiting <i>C. albicans</i> SC5314 skin infections in female IRC mice [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8334 mL	9.1672 mL	18.3345 mL
5 mM	0.3667 mL	1.8334 mL	3.6669 mL
10 mM	0.1833 mL	0.9167 mL	1.8334 mL
50 mM	0.0367 mL	0.1833 mL	0.3667 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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