

## Neticonazole

## Chemical Properties

CAS No. : 130726-68-0

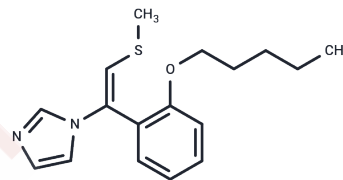
Formula: C<sub>17</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 302.43

Store at low temperature

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	Neticonazole (SS717) is an imidazole derivative with antifungal activity that inhibits exosome secretion. Neticonazole has anti-infective and anti-cancer effects, can induce contact dermatitis, and can be used to study skin <i>Candida albicans</i> infections.
Targets(IC50)	Antifungal
In vitro	Neticonazole against 39 <i>T. rubrum</i> isolates (MIC80, 0.125 µg/ml) and 28 <i>T. mentagrophytes</i> isolates (MIC80, 0.25 µg/ml). Neticonazole against 39 <i>T. rubrum</i> isolates (MFC80, 0.25 µg/ml) and 28 <i>T. mentagrophytes</i> isolates (MFC 80, 0.25 µg/ml). [1]
In vivo	A clinical isolate of <i>C. albicans</i> , isolate KC-36, was used for production of experimental cutaneous candidiasis in guinea pigs. The MICs of Neticonazole for the test strain were 0.0625. [1]

## Solubility Information

Solubility	1M HCl: 80 mg/mL (264.52 mM), when pH is adjusted to 1 with 1M HCl. Sonication is recommended. DMSO: 200 mg/mL (661.31 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.3066 mL	16.5328 mL	33.0655 mL
5 mM	0.6613 mL	3.3066 mL	6.6131 mL
10 mM	0.3307 mL	1.6533 mL	3.3066 mL
50 mM	0.0661 mL	0.3307 mL	0.6613 mL

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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

Tatsumi Y, et al. In vitro antifungal activity of KP-103, a novel triazole derivative, and its therapeutic efficacy against experimental plantar tinea pedis and cutaneous candidiasis in guinea pigs. *Antimicrob Agents Chemother.* 2001 May;45(5):1493-9.

Datta A, et al. High-throughput screening identified selective inhibitors of exosome biogenesis and secretion: A drug repurposing strategy for advanced cancer. *Sci Rep.* 2018 May 25;8(1):8161.

Ishizaki S, et al. A Case of Tinea Pedis in a Child Caused by *Trichophyton interdigitale* with Two Different Colony Phenotypes on Primary Culture. *Med Mycol J.* 2019;60(4):91-94.

Gu L, et al. The exosome secretion inhibitor neticonazole suppresses intestinal dysbacteriosis-induced tumorigenesis of colorectal cancer. *Invest New Drugs.* 2020 Apr;38(2):221-228.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481