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New azole derivatives showing antimicrobial effects and their mechanism of antifungal activity by molecular modeling studies

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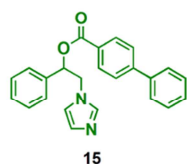
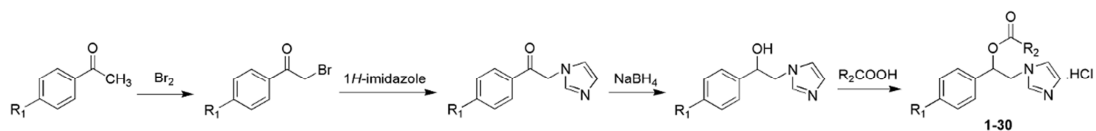
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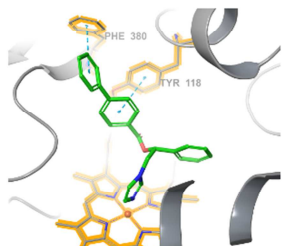
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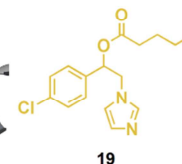
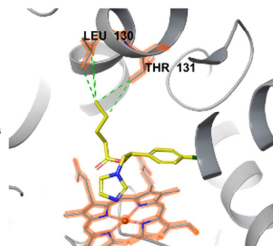


MIC 0.125 $\mu\text{g/mL}$
C. albicans



1-15 R₁: H
16-30 R₁: Cl

1, 16 R₂: CH₃
2, 17 R₂: CH₂CH₃
3, 18 R₂: CH₂CH₂CH₃
4, 19 R₂: CH₂CH₂CH₂CH₃
5, 20 R₂: CH₂CH(CH₃)₂
6, 21 R₂: CH(CH₂CH₂CH₃)₂
7, 22 R₂: (CH₂)₂COCH₃
8, 23 R₂: CH=CHCH=CHCH₃
9, 24 R₂: CH₂C₆H₅
10, 25 R₂: (CH₂)₃C₆H₅
11, 26 R₂: (CH₂)₂COC₆H₅
12, 27 R₂: CH=CHC₆H₅
13, 28 R₂: C₆H₁₁
14, 29 R₂: C₆H₅
15, 30 R₂: C₆H₄PC₆H₅



MIC 0.250 $\mu\text{g/mL}$
C. glabrata

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