

Product Datasheet

VT-1598

Catalog No. **BP-01970** · CAS **2089320-99-8** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-09-09**

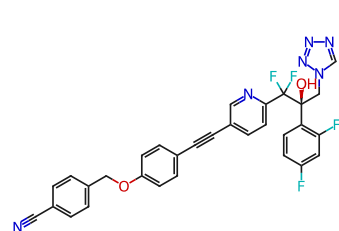
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Target Fungal	Research area Infection; Inflammation/Immunology
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Molecular formula **C₃₁H₂₀F₄N₆O₂**

Molecular weight **584.5231**

STRUCTURE



DESCRIPTION

VT-1598 is an orally active and selective fungal inhibitor targeting CYP51. VT-1598 shows anti-fungal activity against *Candida auris*. VT-1598 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

BIOLOGICAL ACTIVITY

In Vitro

VT-1598 (0.015-8 µg/mL; 24 h) demonstrates in vitro activity against *C. auris*.

VT-1598 (0.03125-0.125 µg/mL; 24 h) shows highly effects in inhibiting the in vitro growth of clinical *Candida* isolates.

In Vivo

VT-1598 (oral gavage; 5, 15, and 50 mg/kg; once daily; 7 d) treatment shows a significant and dose-dependent survival advantage, and dose-dependent reductions in fungal burden.

VT-1598 (oral gavage; 3.2, 8, and 20 mg/kg; once daily; 4 d) is present to a great extent in the plasma and tongue after oral administration in Act1-deficient mice infected with *C. albicans*.

SOLUBILITY

Soluble in DMSO : 100 mg/mL

REFERENCES

[1]. Nathan P Wiederhold, et al. The Fungal Cyp51-Specific Inhibitor VT-1598 Demonstrates In Vitro and In Vivo Activity against *Candida auris*. *Antimicrob Agents Chemother.* 2019 Feb 26;63(3):e02233-18.

[2]. Timothy J Break, et al. VT-1598 inhibits the in vitro growth of mucosal Candida strains and protects against fluconazole-susceptible and -resistant oral candidiasis in IL-17 signalling-deficient mice. J Antimicrob Chemother. 2018 Aug 1;73(8):2089-2094.

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