

# Terbinafine hydrochloride

Catalog No: tcsc1123



## Available Sizes

Size: 100mg

Size: 200mg



## Specifications

**CAS No:**

78628-80-5

**Formula:**

$C_{21}H_{26}ClN$

**Pathway:**

Anti-infection

**Target:**

Fungal

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

TDT 067 hydrochloride

**Observed Molecular Weight:**

327.89

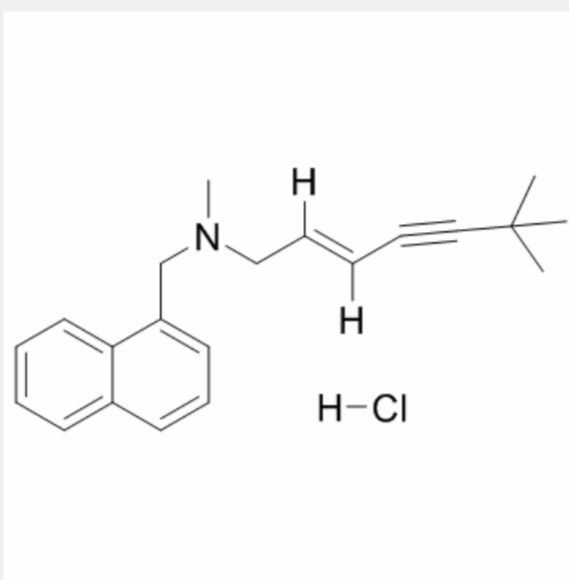
## Product Description

Terbinafine hydrochloride (TDT 067 hydrochloride) is an antifungal medication used to treat fungal infections. It is a potent non-competitive inhibitor of **squalene epoxidase** from *Candida* with a  $K_i$  of 30 nM.

IC50 & Target: Ki: 30 nM (squalene epoxidase)<sup>[1]</sup>

**In Vitro:** Terbinafine has a primary fungicidal action *in vitro* against most fungal pathogens, including dermatophytes, and dimorphic and filamentous fungi. Terbinafine specifically inhibits fungal ergosterol biosynthesis at the point of squalene epoxidation. The treated fungal cells rapidly accumulate toxic intermediate squalene and become deficient in the end-product of the pathway, ergosterol<sup>[1]</sup>.

**In Vivo:** Terbinafine is not only active after topical application but is very effective in experimental dermatophytoses following oral administration. In fungi infected guinea-pigs, the skin temperature drops dramatically after the fourth treatment of terbinafine<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!