

Product Name: Terbinafine hydrochloride

Catalog No.: 6484

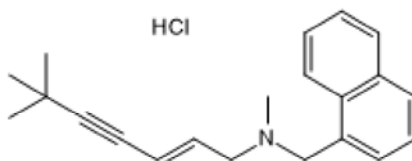
Batch No.: 1

CAS Number: 78628-80-5

IUPAC Name: *N*-[(2*E*)-6,6-Dimethyl-2-hepten-4-yn-1-yl]-*N*-methyl-1-naphthalenemethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₅N.HCl
Batch Molecular Weight: 327.89
Physical Appearance: White solid
Solubility: DMSO to 100 mM
water to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	76.92	7.99	4.27	10.81
Found	77.05	8.02	4.36	10.96

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective TASK3 activator (pEC₅₀ = 6.2). Exhibits >10-fold selectivity for TASK3 over TREK2, TRESK, THIK1 and TASK2. Also inhibits TWIK1 (pIC₅₀ = 5.69). Also antifungal; inhibits fungal sterol biosynthesis by inhibition of squalene epoxidase.

Physical and Chemical Properties:

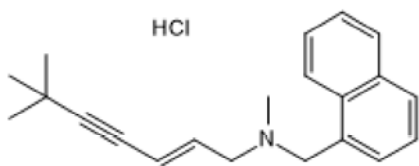
Batch Molecular Formula: C₂₁H₂₅N.HCl

Batch Molecular Weight: 327.89

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

water to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Wright et al (2017) Terbinafine is a novel and selective activator of the two-pore domain potassium channel TASK3. *Biochem.Biophys.Res.Commun.* **493** 444. PMID: 28882594.

Petryni et al (1984) Allylamine derivatives: new class of synthetic antifungal agents inhibiting fungal squalene epoxidase. *Science* **224** 1239. PMID: 6547247.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956