Product Information

Terbinafine (hydrochloride)
Item No. 10011619

CAS Registry No.: 78628-80-5
Formal Name: N-[(2E)-6,6-dimethyl-2-hepten-4-yn-1-yl]-N-methyl-1-naphthalenemethanamine, monohydrochloride

MF: C_{21}H_{25}N • HCl
FW: 327.9
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

UV/Vis:
\( \lambda_{\text{max}} \) 223, 284 nm

Laboratory Procedures
For long term storage, we suggest that terbinafine (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

Terbinafine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the terbinafine (hydrochloride) in the solvent of choice. Terbinafine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of terbinafine (hydrochloride) in ethanol is approximately 30 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Terbinafine (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, terbinafine (hydrochloride) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Terbinafine (hydrochloride) has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Terbinafine is an antifungal compound that is highly active against dermatophytes, mold, other basic fungi, and some strains of yeast.\(^1\) It is clinically used to treat nail and skin infections, inhibiting ergosterol synthesis at the stage of squalene epoxidation (IC\(_{50}\) = 30 nM for \textit{C. albicans}).\(^2\) At 90-120 µM, terbinafine exhibits anti-tumor and anti-angiogenic activity by inducing cell cycle arrest at the G\(_0\)/G\(_1\) stage in COLO 205 tumor cells and human vascular endothelial cells.\(^3,4\)

References

Related Products
For a list of related products please visit: \texttt{www.caymanchem.com/catalog/10011619}

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent our email to your institution.

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