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Anti-infection

Fungal Terbinafine

Terbinafine (Synonyms: TDT 067)

Cat. No.: HY-17395A Purity: 99.91% **Data Sheet** SDS **Handling Instructions**

Terbinafine (TDT 067) is an orally active and potent antifungal agent. Terbinafine is a potent non-competitive inhibitor of squalene epoxidase from Candida, with a K_i of 30 nM. Terbinafine also shows antibacterial activity against certain Gram-positive and Gram-negative bacteria.

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Based on 2 publication(s) in Google Scholar

Other Forms of Terbinafine:

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2 Publications Citing Use of MCE Terbinafine

- Cell Death Dis. 2021 May 13;12(5):482.
- · Cancer Commun (Lond). 2021 Jul 16.



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eg. Name, CAS, Target



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Cancer Communications | 2021 Jul 16 | PudMed ID: 34268906 | Read Article

Squalene epoxidase promotes colorectal cancer cell proliferation through accumulating calcitriol and activating CYP24A1-mediated MAPK signaling, et al. Squalene epoxidase promotes colorectal cancer cell proliferation through accumulating calcitriol and activating CYP24A1-mediated MAPK signaling

Luwei He, Huaguang Li, ..., Moubin Lin

Article Snippet

"... mice were sacrificed by cervical dislocation before the volume of tumors reached 1000 mm3.. For **terbinafine** (CatHY17395A; **MedChemExpress**, Shanghai, China) treatment, HT29 and RKO cells (4×106 cells in 0.1 mL PBS) were subcutaneously injected into the left flank of nude mice.. Once tumor volumes reached 30 mm3, these mice were divided into control group (PBS ..." (*More...*)

Figure Legend

"Terbinafine suppressed the growth of CRC organoids and xenograft ..." (More...)

Cancer Science | 2022 Jan 06 | PubMed ID: 34939274 | Read Article

Squalene synthase predicts poor prognosis in stage I-III colon adenocarcinoma and synergizes squalene epoxidase to promote tumor progression, et al. Squalene synthase predicts poor prognosis in stage I-III colon adenocarcinoma and synergizes squalene epoxidase to promote tumor progression

Huihong Jiang, Erjiang Tang, ..., Luwei He

Article Snippet

"2.1 Reagents D-pantethine (abs816989) was purchased from absin.. Lapaquistat (HY-14925) and **terbinafine** (HY-17395A) were purchased from **MCE**.. N -acetyl-l-cysteine (S0077) was purchased from Beyotime." (*More*...)

Figure Legend

"... HT29 cells were treated with lapaquistat (La) and **terbinafine** (Te) at different concentrations for 48 or 72 ..." (<u>More</u>...)

Cell Death & Disease | 2021 May 13 | PubMed ID: 33986254 | Read Article

Targeting epigenetic modulation of cholesterol synthesis as a therapeutic strategy for head and neck squamous cell carcinoma Xing Xu, Jun Chen, ..., Xu Wang

Article Snippet

"Chemical compoundsThe following compounds were purchased from commercial vendors: GSK126 (S7061, Selleck, China), GSK343 (S7164, Selleck, China), EPZ6438 (S7168, Selleck, China), NB-598 (HY-16343C, MCE, China), Atorvastatin (HY-17379, MCE, China), Ro48-8071 (HY-18630A, MCE, China), **Terbinafine** (HY-17395, **MCE**, China), Butenafine (HY-17396, MCE, China), Cholesterol (C3045, Sigma, China), Desmosterol (H130206, Aladdin, China), Lathosterol (HY-17395, MCE, China), Squalene (S3626, Sigma, China)." (*More...*)

Figure Legend

"... treatment groups. Cells were treated with vehicle, EPZ6438, **terbinafine** or the combination for 48 h. Bar = ..." (*More...*)



- Master of Bioactive Molecules

eg. Name, CAS, Target

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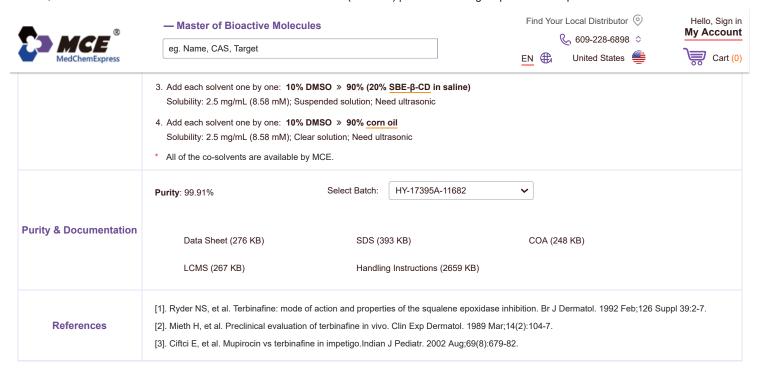
United States





Description	Terbinafine (TDT 067) is an orally active and potent antifungal agent. Terbinafine is a potent non-competitive inhibitor of squalene epoxidase from <i>Candida</i> , with a K _i of 30 nM. Terbinafine also shows antibacterial activity against certain Gram-positive and Gram-negative bacteria [1] [2] [3].						
IC ₅₀ & Target	Ki: 30 nM (squalene epoxidase) ^[1]						
In Vitro	Terbinafine has a primary fungicidal action <i>in vitro</i> 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 tlic intermediate squalene and become deficient in the end-product of the pathway, ergosterol [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
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 dropps dramatically after the fourth treatment of terbinafine [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
	NCT Number S	ponsor	Condition	Start Date	Phase		
	NCT01433107 N	ovartis	Tinea Pedis	August 2011	Phase 3		
Clinical Trial	NCT03171584 As	ssiut University	Antifungal Drugs in Onychomycosi s	July 1, 2017	Phase 3		
	NCT00443898 N	ovartis Pharmaceuticals Novartis	Onychomycosis	December 2006	Phase 3		
			View More ∨				
Molecular Weight	291.43						
Formula	C ₂₁ H ₂₅ N						
CAS No.	91161-71-6						
SMILES	CN(C/C=C/C#CC(C)(C)C)CC1=C2C=CC=CC1						
Shipping	Room temperature in continental US; may vary elsewhere.						
Storage	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month						
olvent & Solubility	In Vitro: DMSO: ≥ 100 mg/mL (343.14 mM) * "≥" means soluble, but saturation unknown.						
		Solvent Mass	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	3.4314 mL	17.1568 mL	34.3136 mL		
		5 mM	0.6863 mL	3.4314 mL	6.8627 mL		
		10 mM	0.3431 mL	1.7157 mL	3.4314 mL		

In Vivo:



The molarity calculator equation

Mass (g) = Concentration (mol/L) × Volume (L) × Molecular Weight (g/mol)

Mass Concentration Volume Molecular Weight * Calculate

mg v = mM v x 291.43

Reset

Keywords: Terbinafine 91161-71-6 **TDT 067** TDT067 TDT-067 Fungal Bacterial Antibiotic infections bacteria Candida squalene epoxidase antibacterial activity Inhibitor inhibitor inhibit

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