

## Product Datasheet

### Amorolfine hydrochloride (orb1224001)

<b>Catalog Number</b>	orb1224001
<b>Category</b>	Small Molecules
<b>Description</b>	<p>Amorolfine Hydrochloride is an antifungal reagent. It exerts the antifungal activity by selectively blocking two steps in the pathway of ergosterol synthesis, and eventually damaging the structure and function of fungal cell membrane. Amorolfine (or amorolfin), is a morpholine antifungal drug that inhibits D14 reductase and D7-D8 isomerase, which depletes ergosterol and causes ergosterol to accumulate in the fungal cytoplasmic cell membranes.(In Vitro):Amorolfine hydrochloride acts primarily by inhibiting ergosterol biosynthesis, a component of fungal cell membrane, and possesses both fungistatic and fungicidal activity.Amorolfine hydrochloride (0-128 mg/l) (2-7 days) shows anti-fungal activity for Dermatophyte fungi, Filamentous fungi, Pathogenic yeasts, Dimorphic fungi, Dematiaceous fungi.Amorolfine hydrochloride shows anti-fungal activity with 90% killing corresponding concentrations of 3, 3, 10 and 100 mg/L for Trichophyton mentagrophytes, C. albicans, Histoplasma capsulatum, Cryptococcus neoformans, respectively.(In Vivo):Amorolfine hydrochloride (0.01%-1%; Intravaginal application; twice daily for 3 days) shows anti-fungal activity in rats with vaginal candidiasis.</p>
<b>Target</b>	Others
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	353.97
<b>Solubility (25°C)</b>	Ethanol: 71 mg/mL (200.58 mM); Water: 9 mg/mL (25.42 mM); DMSO: 28 mg/mL (79.1 mM)
<b>CAS Number</b>	78613-38-4
<b>Formula</b>	C <sub>21</sub> H <sub>36</sub> ClNO
<b>SMILES</b>	CCC(C)(C)C1=CC=C(C=C1)CC(C)CN2C[C@H](O[C@H](C2)C)C.Cl

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

<b>Storage</b>	Storage temperature: -20°C. Stability: $\geq$ 2 years
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

---

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)