

Product Datasheet

Piroctone olamine (orb1224238)

Catalog Number	orb1224238
Category	Small Molecules
Description	Piroctone olamine, also known as Octopirox (Clariant) and piroctone ethanolamine, is a compound sometimes used in the treatment of fungal infections. Piroctone olamine is the ethanolamine salt of the hydroxamic acid derivative piroctone. (In Vitro):Piroctone olamine, the ethanolamine salt of the hydroxamic acid derivative Piroctone, is a hydroxypyridone anti-mycotic agent. Piroctone olamine penetrates the cell membrane and forms complexes with iron ions, inhibiting energy metabolism in mitochondria. Piroctone olamine (PO) is an ethanolamine salt of the hydroxamic acid derivative Piroctone. All Candida strains show low minimum inhibitory concentrations (MICs) for Piroctone olamine (0.125-0.5 µg/mL) and Amphotericin B (AMB) (0.03-1 µg/mL).(In Vivo):This work aimed to evaluate the antifungal activity of Piroctone olamine in the treatment of intra-abdominal candidiasis in an experimental model using Swiss mice. The treatment with Piroctone olamine (0.5 mg/kg) is performed 72 h after infection by intraperitoneal administration. For comparison, a group of animals (n=6) is treated with Amphotericin B (0.5 mg/kg). The mycological diagnosis is made by collecting the liver, spleen and kidneys. Data regarding the fungal growth and mortality are analyzed statistically by Student's t test and analysis of variance, with level of significance set at P<0.05. The difference in fungal growth scoring between the control group and the treatment groups (Piroctone olamine and Amphotericin B) is statistically significant (P<0.05).
Target	Others
Purity	>98% (HPLC)
MW	298.42
Solubility (25°C)	DMSO: 10 mM
CAS Number	68890-66-4

Biorbyt Ltd.

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

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

Formula	$C_{16}H_{30}N_2O_3$
SMILES	<chem>CC(CC1=CC(C)=CC(=O)N1O)CC(C)(C)C</chem>
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

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

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