Taiclone®
Quality Guarantee

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Piroctone olamine

Catalog No: tcsc7659

Available Sizes

Size: 50mg

Size: 100mg

Specifications

CAS No:
68890-66-4

Formula:
$C_{16}H_{30}N_2O_3$

Pathway:
Anti-infection

Target:
Fungal

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Piroctone ethanolamine

Observed Molecular Weight:
298.42

Product Description

Piroctone olamine is a pyridine derivate. It is known to have a fungicidal effect.

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IC50 & Target: Antifungal[1]

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[1]. 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)[2].

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[2].