

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

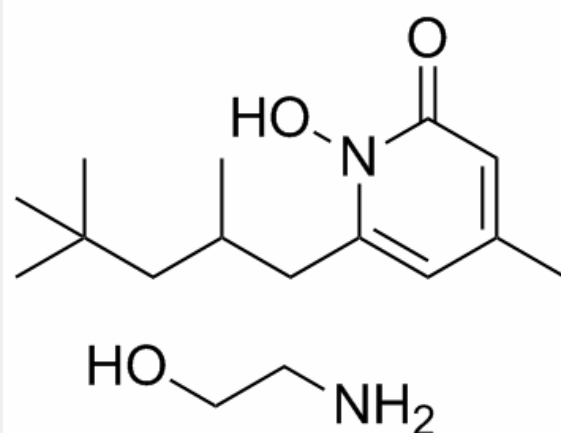
Product Description

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

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].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!