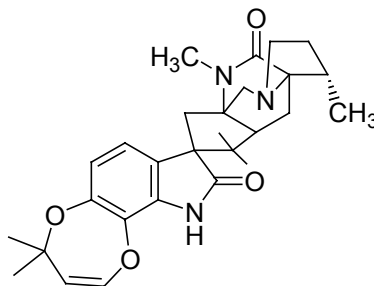


Paraherquamide E

Code: **BIA-P1118**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **Antibiotic VM 54159, 14-Deoxy-paraherquamide A**

Specifications

CAS # : **125600-53-5**
Molecular Formula : **C₂₈H₃₅N₃O₄**
Molecular Weight : **477.6**
Source : ***Penicillium* sp. MST-FP116A**
Appearance : **White solid**
Purity : **> 99% by HPLC**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO**

Application Notes

Paraherquamide E is a member of the paraherquamide family which cause a potent non-toxic paralysis of nematodes and has led to investigation of their potential as anthelmintics. Although paraherquamide A has received more attention, paraherquamide E has been shown to be the more potent anthelmintic *in vivo*. Paraherquamide E was also found to be the most potent insecticide in a series of paraherquamide analogues against a hemipteran with an LD₅₀ of 0.089 ug/nymph.

References

1. Insecticidal activity of paraherquamides, including paraherquamide H and paraherquamide I, two new alkaloids isolated from *Penicillium cluniae*. Lopez-Gresa M.P. et al. *J. Agric. Food Chem.* **2006**, 54, 2921.
2. Paraherquamide and 2-deoxy-paraherquamide distinguish cholinergic receptor subtypes in *Ascaris* muscle. Robertson A.P. et al. *J. Pharmacol. Exp. Ther.* **2002**, 302, 853.
3. New paraherquamide antibiotics with anthelmintic activity. Blanchflower S.E. et al. *J. Antibiot.* **1991**, 44, 492.
4. Novel antinematodal and antiparasitic agents from *Penicillium charlesii*. I. Fermentation, isolation and biological activity. Ondeyka J.G. *J. Antibiot.* **1990**, 43, 1380.