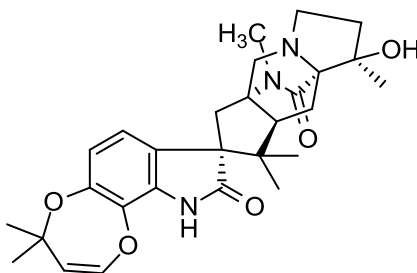


## Paraherquamide A

Code No.: **BIA-P1065**

Pack sizes: **1 mg, 5 mg**



Synonyms : VM 29919

### Specifications

CAS #	: 77392-58-6
Molecular Formula	: C <sub>28</sub> H <sub>35</sub> N <sub>3</sub> O <sub>5</sub>
Molecular Weight	: 493.6
Source	: <i>Penicillium simplicissimum</i>
Appearance	: White Powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

### Application Notes

Paraherquamide A was first reported as a mycotoxin related to the indole tremorgenic mycotoxins. Subsequent research identified a potent, non-toxic paralysis of nematodes which led to the metabolite's development as a candidate anthelmintic. Paraherquamide A is a selective, competitive, cholinergic antagonist that distinguishes subtypes of cholinergic receptors.

### References

1. The structure of paraherquamide, a toxic metabolite from *Penicillium paraherquei*. Yamazaki M.E. et al., *Tetrahedron Lett.* 1982, 22, 135.
2. Novel antinematocidal and antiparasitic agents from *Penicillium charlesii* I. Fermentation, isolation and biological activity. Ondeyka J.G. *J. Antibiot.* 1990, 43, 1375.
3. Paraherquamide and 2-deoxy-paraherquamide distinguish cholinergic receptor subtypes in *Ascaris* muscle. Robertson A.P. et al., *J. Pharmacol. Exp. Ther.* 2002, 302, 853.