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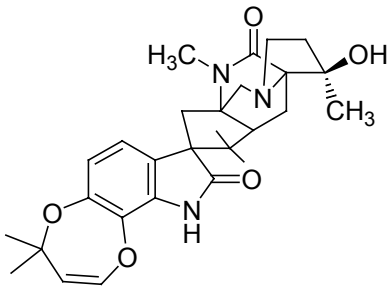
PRODUCT DATA SHEET

Paraherquamide A

Code: **BIA-P1065**

Pack sizes: **1.0 mg, 5.0 mg**



Synonyms : **Antibiotic VM 29919**

Specifications

CAS #	:	**77392-58-6**
Molecular Formula	:	**$C_{28}H_{35}N_3O_5$**
Molecular Weight	:	**493.6**
Source	:	***Penicillium simplicissimum* MST-FP116A**
Appearance	:	**White Powder**
Purity	:	**> 95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO**

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

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