

Product Name: Paraherquamide A

Product Number: P069

CAS Number: 77392-58-6

Molecular Formula: $C_{28}H_{35}N_3O_5$

Molecular Weight: 493.6

Appearance: White Powder

Storage Conditions: -20°C

Description: 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 soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Mechanism of Action: Paraherquamide A is a selective, competitive, cholinergic antagonist that distinguishes subtypes of cholinergic receptors.

References: The structure of paraherquamide, a toxic metabolite from *Penicillium paraherquei*. Yamazaki M.E. et al. *Tetrahedron Lett.* 1982, 22, 135.

Novel antinematocidal and antiparasitic agents from *Penicillium charlesii* I. Fermentation, isolation and biological activity. Ondeyka J.G. *J. Antibiot.* 1990, 43, 1375.

Paraherquamide and 2-deoxy-paraherquamide distinguish cholinergic receptor subtypes in *Ascaris* muscle. Robertson A.P. et al. *J. Pharmacol. Exp. Ther.* 2002, 302, 853.