PRODUCT DATA SHEET

Derquantel

Synonyms: 2-Deoxoparaherquamide, 2-Deoxoparaherquamide A, 2-Desoxoparaherquamide A, PF 00520904, PNU 141962

Specifications

- **CAS #**: 187865-22-1
- **Molecular Formula**: C_{28}H_{37}N_{3}O_{4}
- **Molecular Weight**: 479.6
- **Source**: Semi-synthetic
- **Appearance**: White solid
- **Purity**: >98% by HPLC
- **Long Term Storage**: -20°C
- **Solubility**: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Derquantel is a semi-synthetic paraherquamide analogue prepared by removal of the 2-oxo group in a four-step sequence of N-protection, reduction, N-deprotection and a final reduction. Derquantel is a potent nematicide and was the first paraherquamide to be successfully commercialised in combination with avermectin. Derquantel, like other paraherquamides, induces a flaccid paralysis in nematodes thought to be due to inhibition of nicotinic acetylcholine receptors acting as an antagonist of acetylcholine.

References