

Product Name:	Derquantel
Product Number:	D046
CAS Number:	187865-22-1
Molecular Formula:	C ₂₈ H ₃₇ N ₃ O ₄
Molecular Weight:	479.6
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>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 nematocide 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.</p> <p>Derquantel is soluble in ethanol, methanol, DMF and DMSO.</p>
References:	<p>Ligands of the nicotinic acetylcholine receptor as insecticides. Nauen R. et al. Pestic. Sci. 1999, 55, 608-610.</p> <p>Semisynthesis of 2-deoxo- and 3-epi-paraherquamide A. Lee B.H. et al. Bioorg. Med. Chem. Lett. 2001, 11, 553-554.</p> <p>Marcfortine and paraherquamide class of anthelmintics: Discovery of PNU-141962. Lee B.H. et al. Current Topics in Med. Chem. 2002, 2, 779.</p>