Product Data Sheet

Product Name: Praziquantel
Cat. No.: GC13197

Chemical Properties

Cas. No.	55268-74-1		
Chemical Name	2-(cyclohexanecarbonyl)-3,6,7,11b-tetrahydro-1H-pyrazino[2,1-a]isoquinolin-4-one		
SMILES	C1CCC(CC1)C(=O)N2CC3C4=CC=CC=C4CCN3C(=O)C2		
Formula	C19H24N2O2	M.Wt	312.41
Solubility	≥ 14.35mg/mL in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Caution: Product has not been fully validated for medical applications. For research use only.
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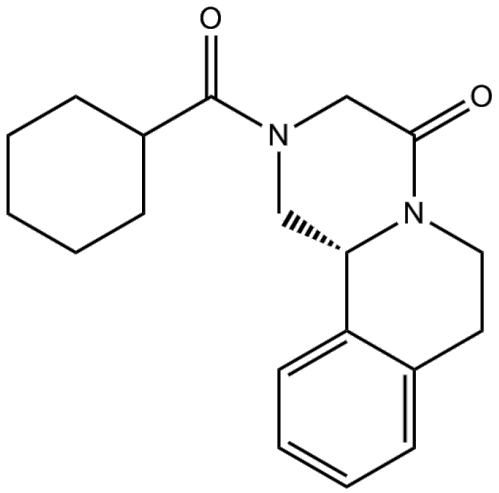
Structure



Background

Praziquantel is an anthelmintic effective against flatworms.Target: AntiparasiticPraziquantel is the drug of choice for treatment of all human schistosomes. Infected mice were treated with increasing Praziquantel doses until the highest dose of 3 × 300 mg/Kg was reached. The effect of Praziquantel treatment on the parasite population was assessed using five polymorphic microsatellite markers. Parasitological and genetic data were compared with those of the untreated control. After six parasite generations submitted to treatment, it was possible to obtain a S. mansoni population with decreased susceptibility to Praziquantel. In our experiments we also observed that female worms were more susceptible to Praziquantel than male worms [1, 2].

References:

[1]. Coeli, R., et al., Praziquantel treatment decreases Schistosoma mansoni genetic diversity in experimental infections. PLoS Negl Trop Dis, 2013. 7(12): p. e2596.

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[2]. Mekonnen, A., et al., Efficacy of Praziquantel against Schistosoma haematobium in Dulshatalo village, western Ethiopia. BMC Res Notes, 2013. 6: p. 392.