

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.

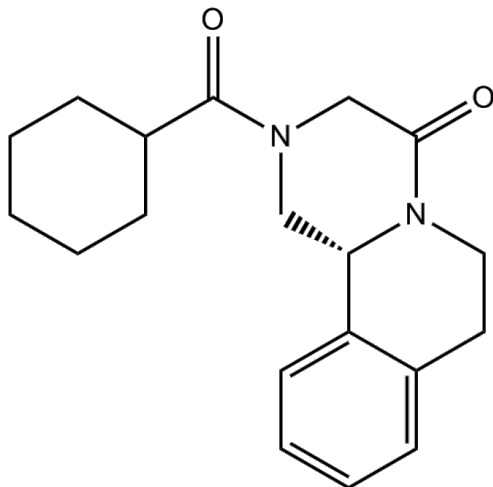
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

Praziquantel is an anthelmintic effective against flatworms. Target: Antiparasitic Praziquantel 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.

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