
Product Data Sheet

Product Name: Praziquantel D11

Cat. No.: GC36958

Chemical Properties

Cas. No. 1246343-36-1

SMILES O=C1N2CCC3=C(C=CC=C3)C2CN(C(C4([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])([2H])C([2H])([2H])C4([2H])[2H])=O)C1

Formula $C_{19}H_{13}D_{11}N_2O_2$ M.Wt 323.47

Solubility DMSO : 50 mg/mL (154.57 mM; Need ultrasonic) 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.

Structure **Background**

Praziquantel-d₁₁ is intended for use as an internal standard for the quantification of praziquantel by GC- or LC-MS. Praziquantel is an anthelmintic agent.^{1,2} It is lethal to *S. mansoni* schistosomula and adults (LC_{50s} = 0.68 and 0.03 mg/ml, respectively).² Praziquantel (172 and 592 mg/kg) reduces worm burden in a mouse model of *S. mansoni* infection. Formulations containing praziquantel have been used in the treatment of schistosomiasis.

1.Cook, G.C.Anthelmintic agents: Some recent developments and their clinical application Postgrad. Med. J.67(783)16-22(1991) 2.Olliaro, P., Delgado-Romero, P., and Keiser, J.The little we know about the pharmacokinetics and pharmacodynamics of praziquantel (racemate and R-enantiomer)J. Antimicrob. Chemother.69(4)863-870(2014)

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

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