
Product Data Sheet

Product Name: (R)-Praziquantel-d11

Cat. No.: GC68408

Chemical Properties

Cas. No. 1399880-38-6

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

Solubility 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**

(R)-Praziquantel D11 is the deuterium labeled (R)-Praziquantel. (R)-Praziquantel, the active enantiomer of Praziquantel, is a partial agonist of the human 5-HT_{2B} receptor. (R)-Praziquantel acts as an antischistosomal eutomer^[1].

(R)-Praziquantel ((R)-PZQ) is a G-protein-coupled receptor ligand. (R)-Praziquantel modulation of serotonergic signaling occurs over a concentration range sufficient to regulate vascular tone of the mesenteric blood vessels where the adult parasites reside within their host. The important anthelmintic is supported by a broad, cross species polypharmacology with (R)-Praziquantel modulating signaling events in both host and parasite^[1].

[1]. Chan JD, et al. The anthelmintic praziquantel is a human serotonergic G-protein-coupled receptor ligand. Nat Commun. 2017 Dec 5;8(1):1910.

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

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