

(R)-Praziquantel-D11

Chemical Properties

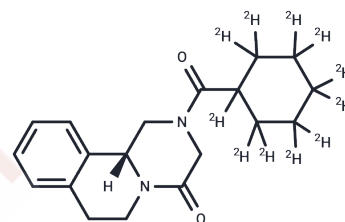
CAS No. : 1399880-38-6

Formula: C₁₉H₂₄N₂O₂

Molecular Weight: 323.47

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(R)-Praziquantel-D11 is the deuterium labeled (R)-Praziquantel (T20127). (R)-Praziquantel is the active enantiomer of Praziquantel, is a partial the human 5-HT _{2B} receptor agonist
Targets(IC ₅₀)	5-HT Receptor,Parasite
In vitro	(R)-Praziquantel modulates serotonergic signaling within a concentration range that effectively regulates the vascular tone of mesenteric blood vessels, where adult parasites inhabit their host. This critical anthelmintic demonstrates a wide, cross-species polypharmacology, with (R)-Praziquantel influencing signaling events in both the host and the parasite.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0915 mL	15.4574 mL	30.9148 mL
5 mM	0.6183 mL	3.0915 mL	6.183 mL
10 mM	0.3091 mL	1.5457 mL	3.0915 mL
50 mM	0.0618 mL	0.3091 mL	0.6183 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481