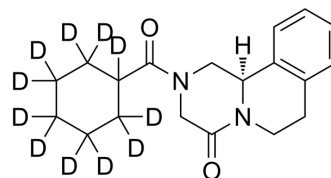


(R)-Praziquantel-d₁₁

Cat. No.:	HY-126057S		
CAS No.:	1399880-38-6		
Molecular Formula:	C ₁₉ H ₁₃ D ₁₁ N ₂ O ₂		
Molecular Weight:	323		
Target:	Parasite; 5-HT Receptor		
Pathway:	Anti-infection; GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	(R)-Praziquantel-d ₁₁ 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] .		
IC₅₀ & Target	5-HT _{2B} Receptor	Schistosome	Antischistosomal
In Vitro	(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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[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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