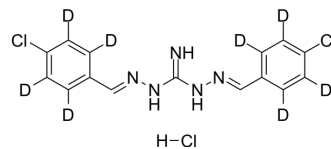


## Robenidine-d8 hydrochloride

Cat. No.:	HY-B2157S
CAS No.:	1173097-77-2
Molecular Formula:	C <sub>15</sub> H <sub>6</sub> D <sub>8</sub> Cl <sub>3</sub> N <sub>5</sub>
Molecular Weight:	378.71
Target:	Bacterial; Parasite
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Robenidine-d <sub>8</sub> (hydrochloride) is the deuterium labeled Robenidine hydrochloride. Robenidine hydrochloride is an anticoccidial agent which is also active against MRSA and VRE with MIC50s of 8.1 and 4.7 μM, respectively.
<b>IC<sub>50</sub> &amp; Target</b>	Coccidia
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Abraham RJ, et al. Robenidine Analogues as Gram-Positive Antibacterial Agents. *J Med Chem*. 2016 Mar 10;59(5):2126-38.
- [3]. Liu C, et al. Influence of three coccidiostats on the pharmacokinetics of florfenicol in rabbits. *Exp Anim*. 2015;64(1):73-9.

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

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