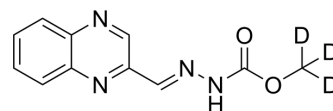


## Desoxycarbadox-d<sub>3</sub>

<b>Cat. No.:</b>	HY-136428S
<b>CAS No.:</b>	1448350-02-4
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>7</sub> D <sub>3</sub> N <sub>4</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	233.24
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Desoxycarbadox-d <sub>3</sub> is the deuterium labeled Desoxycarbadox. Desoxycarbadox is a metabolite of Carbadox (HY-B1340). Carbadox is a quinoxaline-di-N-oxide antibiotic compound.
<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]. Looft T, et al. Carbadox has both temporary and lasting effects on the swine gut microbiota. *Front Microbiol.* 2014;5:276. Published 2014 Jun 10.
- [2]. MacIntosh AI, et al. Liquid chromatographic monitoring of the depletion of carbadox and its metabolite desoxycarbadox in swine tissues. *J Assoc Off Anal Chem.* 1985;68(4):665-671.
- [3]. Zhang K, et al. Investigation of quinoxaline-induced mitochondrial damage and apoptosis in HepG2 cells and compared with its metabolites. *Environ Toxicol Pharmacol.* 2015;39(2):555-567.
- [4]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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