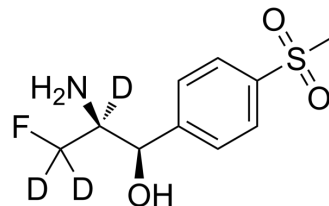


## ent-Florfenicol Amine-d<sub>3</sub>

<b>Cat. No.:</b>	HY-133695S
<b>CAS No.:</b>	1217625-88-1
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>11</sub> D <sub>3</sub> FNO <sub>3</sub> S
<b>Molecular Weight:</b>	250.3
<b>Target:</b>	Antibiotic; Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	ent-Florfenicol Amine-d <sub>3</sub> is the deuterium labeled Florfenicol amine. Florfenicol amine is a metabolite of Florfenicol (HY-B1374). Florfenicol, a veterinary antibiotic, can be used in aquaculture to control susceptible bacterial diseases[1].
<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]. B-K Park, et al. Pharmacokinetics of florfenicol and its metabolite, florfenicol amine, in the Korean catfish (*Silurus asotus*). *J Vet Pharmacol Ther*. 2006 Feb;29(1):37-40.

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

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