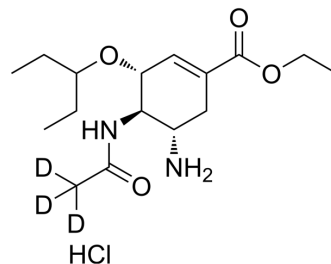


Oseltamivir-d₃ hydrochloride

Cat. No.:	HY-13317S4
Molecular Formula:	C ₁₆ H ₂₆ D ₃ ClN ₂ O ₄
Molecular Weight:	351.88
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Oseltamivir-d ₃ hydrochloride is the deuterium-labeled Oseltamivir (HY-13317) ^[1] . Oseltamivir is an influenza virus neuraminidase inhibitor (NAI). Oseltamivir inhibits influenza A/H3N2, A/H1N2, A/H1N1, and B viruses with mean IC ₅₀ s of 0.67, 0.9, 1.34 and 13 nM, respectively. Anti-influenza A and B agent ^[2] .
In Vitro	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 ^[1] . 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 Feb;53(2):211-216.

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

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