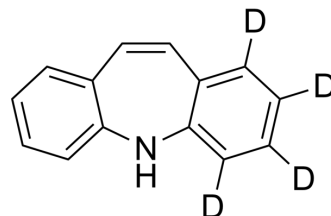


Iminostilbene-d₄

Cat. No.:	HY-N7064S
Molecular Formula:	C ₁₄ H ₇ D ₄ N
Molecular Weight:	197.27
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Iminostilbene-d ₄ is deuterium labeled Iminostilbene. Iminostilbene is a chemical precursor of carbamazepine[1].
In Vitro	<p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Christian P, et al. Crystallization of Carbamazepine in Proximity to Its Precursor Iminostilbene and a Silica Surface. *Cryst Growth Des*. 2016 May 4;16(5):2771-2778. Epub 2016 Mar 30.

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

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