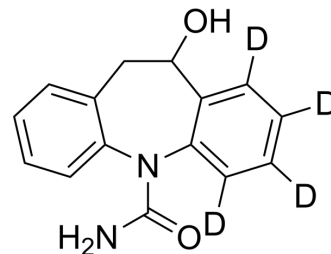


Licarbazepine-d₄-1

Cat. No.:	HY-108506S2
CAS No.:	1188265-49-7
Molecular Formula:	C ₁₅ H ₁₀ D ₄ N ₂ O ₂
Molecular Weight:	258.31
Target:	Sodium Channel; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Licarbazepine-d ₄ -1 is deuterium labeled Licarbazepine. Licarbazepine (BIA 2-005; GP 47779) is a voltage-gated sodium channel blocker with anticonvulsant and mood-stabilizing effects ^[1] .
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]. Rajinder P Singh, et al. A review of eslicarbazepine acetate for the adjunctive treatment of partial-onset epilepsy. *J Cent Nerv Syst Dis*. 2011 Jul 20;3:179-87.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.

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

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