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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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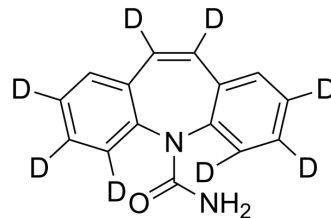
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Carbamazepine-d₈

Cat. No.:	HY-B0246S2
CAS No.:	1538624-35-9
Molecular Formula:	C ₁₅ H ₄ D ₈ N ₂ O
Molecular Weight:	244.32
Target:	Sodium Channel; Autophagy; Mitophagy
Pathway:	Membrane Transporter/Ion Channel; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Carbamazepine-d₈ is the deuterium labeled Carbamazepine. Carbamazepine, a sodium channel blocker, is an anticonvulsant agent, with an IC₅₀ of 131 μM[1][2].

REFERENCES

- [1]. Willow, M. and W.A. Catterall, Inhibition of binding of [3H]batrachotoxinin A 20-alpha-benzoate to sodium channels by the anticonvulsant drugs diphenylhydantoin and carbamazepine. *Mol Pharmacol*, 1982. 22(3): p. 627-35.
- [2]. Okada, M., et al., Biphasic effects of carbamazepine on the dopaminergic system in rat striatum and hippocampus. *Epilepsy Res*, 1997. 28(2): p. 143-53.
- [3]. 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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