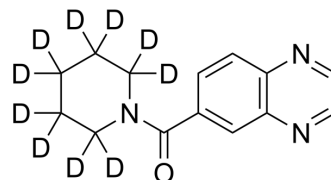


CX516-d₁₀

Cat. No.:	HY-10933S
CAS No.:	1286653-21-1
Molecular Formula:	C ₁₄ H ₅ D ₁₀ N ₃ O
Molecular Weight:	251.35
Target:	iGluR; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CX516-d ₁₀ is the deuterium labeled CX516. CX516 (BDP 12) is an ampakine and acts as an AMPA receptor positive allosteric modulator for the research of Alzheimer's disease, schizophrenia and mild cognitive impairment (MCI)[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Broberg BV, Glenthøj BY, Dias R, et al. Reversal of cognitive deficits by an ampakine (CX516) and sertindole in two animal models of schizophrenia--sub-chronic and early postnatal PCP treatment in attentional set-shifting. *Psychopharmacology (Berl)*. 2009 Nov;206(4):631-40.

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

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