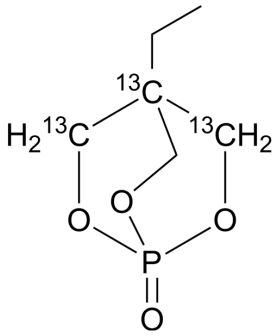
Etbicyphat-$^{13}C_3$

Cat. No.:	HY-139145S
Molecular Formula:	$C_3{}^{13}C_3H_{11}O_4P$
Molecular Weight:	181.1
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Etbicyphat-$^{13}C_3$ is the ^{13}C labeled Etbicyphat (HY-139145). Etbicyphat is a potent GABA(A) receptors competitive antagonist. Etbicyphat induces epileptiform activities in hippocampal CA1 neurons, and binds to the GABA(A)-benzodiazepine receptors[1][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.

[2]. Rijal SO, et al. Dissociation constants for GABA(A) receptor antagonists determined with neuronal networks on microelectrode arrays. J Neurosci Methods. 2008 Aug 30;173(2):183-92.

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