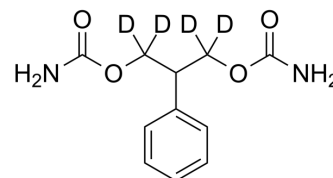


## Felbamate-d4

Cat. No.:	HY-B0184S
CAS No.:	106817-52-1
Molecular Formula:	C <sub>11</sub> H <sub>10</sub> D <sub>4</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	242.26
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Felbamate-d <sub>4</sub> (W-554-d4) is the deuterium labeled Felbamate. Felbamate (W-554) is a potent anticonvulsant whose clinical effect may be related to the inhibition of N-methyl-D-aspartate (NMDA).
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Kuo CC, et al. Use-dependent inhibition of the N-methyl-D-aspartate currents by felbamate: a gating modifier with selective binding to the desensitized channels. *Mol Pharmacol*. 2004 Feb;65(2):370-80.
- [3]. Harty TP, et al. Felbamate block of recombinant N-methyl-D-aspartate receptors: selectivity for the NR2B subunit. *Epilepsy Res*. 2000 Mar;39(1):47-55.

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

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