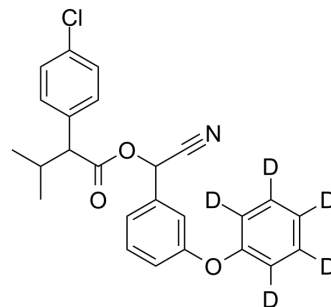


Fenvalerate-d5

Cat. No.:	HY-B2006S
CAS No.:	1246815-00-8
Molecular Formula:	C ₂₅ H ₁₇ D ₅ ClNO ₃
Molecular Weight:	424.93
Target:	Phosphatase; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fenvalerate-d5 is the deuterium labeled Fenvalerate. Fenvalerate is a potent protein phosphatase 2B (calcineurin) inhibitor with an IC ₅₀ of 2-4 nM for PP2B-A α . Fenvalerate is a pyrethroid ester insecticide and acaricide ^[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]. E Enan, et al. Specific Inhibition of Calcineurin by Type II Synthetic Pyrethroid Insecticides. *Biochem Pharmacol*. 1992 Apr 15;43(8):1777-84.; A R Reilein, et al. Regulation of Organelle Movement in Melanophores by Protein Kinase A (PKA), Protein Kinase C (PKC), and Protein Phosphatase 2A (PP2A). *J Cell Biol*. 1998 Aug 10;142(3):803-13.

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

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