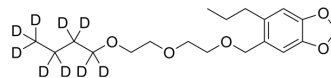


Piperonyl butoxide-d₉

| | |
|---------------------------|---|
| Cat. No.: | HY-B1198S |
| CAS No.: | 1329834-53-8 |
| Molecular Formula: | C ₁₉ H ₂₁ D ₉ O ₅ |
| Molecular Weight: | 347.49 |
| Target: | Parasite; Isotope-Labeled Compounds |
| Pathway: | Anti-infection; Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Piperonyl butoxide-d ₉ is the deuterium labeled Piperonyl butoxide. Piperonyl butoxide is a semisynthetic derivative of safrole used as a component of pesticide formulations. It is a synergist, despite having no pesticidal activity of its own, it enhances the potency of certain pesticides such as Carbamates, Pyrethrins, Pyrethroids, and Rotenone. |
| 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.

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

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