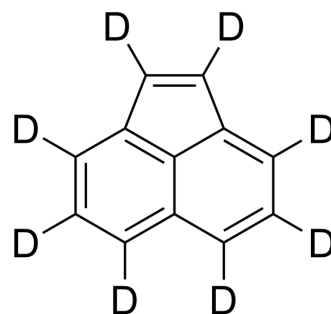


Acenaphthylene-d₈

Cat. No.:	HY-W013570S
CAS No.:	93951-97-4
Molecular Formula:	C ₁₂ D ₈
Molecular Weight:	160.24
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acenaphthylene-d ₈ is the deuterium labeled Acenaphthylene[1]. Acenaphthylene is a polycyclic aromatic hydrocarbon (PAH). PAHs are derived naturally from coal and tar deposits, and produced by incomplete combustion of organic matter[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]. Fabienne Reisen, et al. Reactions of hydroxyl radicals and ozone with acenaphthene and acenaphthylene. *Environ Sci Technol*. 2002 Oct 15;36(20):4302-11.
- [3]. Amin Kiani, et al. Monitoring of polycyclic aromatic hydrocarbons and probabilistic health risk assessment in yogurt and butter in Iran. *Food Sci Nutr*. 2021 Feb 149(4):2114-2128.

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

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