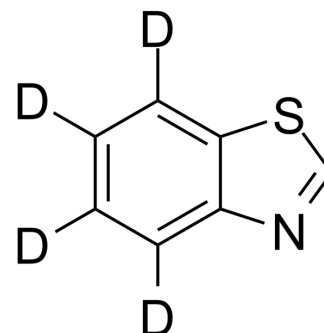


Benzothiazole-d₄

Cat. No.:	HY-W012634S
CAS No.:	194423-51-3
Molecular Formula:	C ₇ HD ₄ NS
Molecular Weight:	139.21
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Benzothiazole-d ₄ is a deuterium labeled Benzothiazole (HY-W012634). Benzothiazole is a natural occurring heterocyclic nuclei. Benzothiazole nucleus possesses a number of biological activities such as anticancer, antimicrobial, antidiabetic, anti-inflammatory, antileishmanial, and antiviral ^{[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):211-246.
- [2]. Ruhi Ali, et al. Biological Aspects of Emerging Benzothiazoles: A Short Review, *Journal of Chemistry*, vol. 2013, Article ID 345198, 12 pages, 2013.

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

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