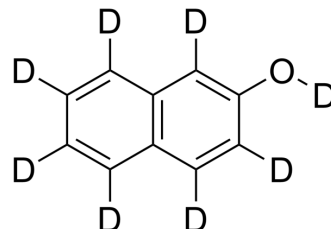


2-Naphthol-d₈

Cat. No.:	HY-Y0110S
CAS No.:	78832-61-8
Molecular Formula:	C ₁₀ D ₈ O
Molecular Weight:	152.22
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Naphthol-d ₈ is the deuterium labeled 2-Naphthol[1]. 2-Naphthol is a metabolite of naphthalene, catalyzed by cytochrome P450 (CYP) isozymes (CYP 1A1, CYP 1A2, CYP 2A1, CYP 2E1 and CYP 2F2)[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]. Kapuci M, et al. Determination of cytotoxic and genotoxic effects of naphthalene, 1-naphthol and 2-naphthol on human lymphocyte culture. *Toxicol Ind Health*. 2014 Feb;30(1):82-9.

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

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