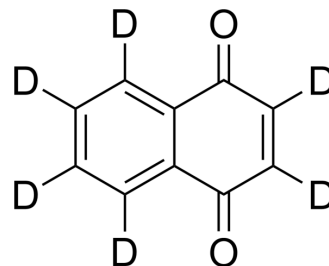


1,4-Naphthoquinone-d₆

Cat. No.:	HY-W015490S
CAS No.:	26473-08-5
Molecular Formula:	C ₁₀ D ₆ O ₂
Molecular Weight:	164.19
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1,4-Naphthoquinone-d ₆ is the deuterium labeled 1,4-Naphthoquinone[1]. 1,4-Naphthoquinone is a potential pharmacophore for inhibition of both MAO (monoamine oxidase) and DNA topoisomerase activities, this latter associated with antitumor activity[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]. Coelho-Cerqueira E, et al. Beyond topoisomerase inhibition: antitumor 1,4-naphthoquinones as potential inhibitors of human monoamine oxidase. *Chem Biol Drug Des*. 2014 Apr;83(4):401-10.

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

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