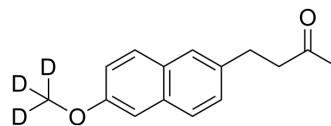


Nabumetone-d₃

Cat. No.:	HY-B0559S
CAS No.:	1216770-08-9
Molecular Formula:	C ₁₅ H ₁₃ D ₃ O ₂
Molecular Weight:	231.3
Target:	COX; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nabumetone-d ₃ is the deuterium labeled Nabumetone. Nabumetone is an orally active non-acidic anti-inflammatory agent, acts as a potent and selective COX-2 inhibitor, and is the proagent of the active metabolite 6MNA.
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.
- [2]. Vural F, et al. Cyclo-oxygenase 2 inhibitor, nabumetone, inhibits proliferation in chronic myeloid leukemia cell lines. *Leuk Lymphoma*. 2005 May;46(5):753-6.
- [3]. Melarange R, et al. Anti-inflammatory and gastrointestinal effects of nabumetone or its active metabolite, 6MNA (6-methoxy-2-naphthylacetic acid): comparison with indomethacin. *Agents Actions*. 1992;Spec No:C82-3.

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

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