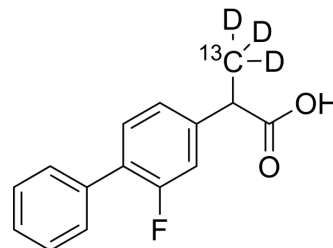


Flurbiprofen-¹³C,₃D₃

Cat. No.:	HY-10582S2
CAS No.:	2747917-55-9
Molecular Formula:	C ₁₄ ¹³ CH ₁₀ D ₃ FO ₂
Molecular Weight:	248.27
Target:	Apoptosis; COX; Isotope-Labeled Compounds
Pathway:	Apoptosis; Immunology/Inflammation; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flurbiprofen- ¹³ C, ₃ D ₃ is the ¹³ C- and deuterium labeled Flurbiprofen. Flurbiprofen (dl-Flurbiprofen) is a potent, orally active nonsteroidal anti-inflammatory agent (NSAIA/NSAID), with antipyretic and analgesic activities. Flurbiprofen is commonly used for the research of inflammatory diseases, including osteoarthritis and rheumatoid arthritis. Flurbiprofen is a non-selective cyclooxygenase (COX) inhibitor that can be used for the research of colorectal cancer[1][2][3].
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 ^[64] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. E M Glenn, et al. The pharmacology of 2-(2-fluoro-4-biphenyl)propionic acid (flurbiprofen). A potent non-steroidal anti-inflammatory drug. Agents Actions. 1973 Nov;3(4):210-6.
- [2]. Hosoi, T., et al., Flurbiprofen ameliorated obesity by attenuating leptin resistance induced by endoplasmic reticulum stress. EMBO Mol Med, 2014.
- [3]. Xiaobo Wang, et al. Flurbiprofen suppresses the inflammation, proliferation, invasion and migration of colorectal cancer cells via COX2. Oncol Lett. 2020 Nov; 20(5): 132.
- [4]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-223.

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

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