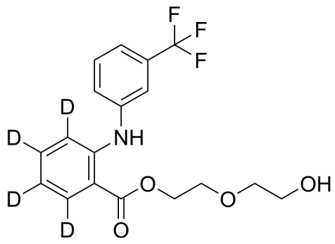
Etofenamate-d_4

Cat. No.:	HY-17361S
CAS No.:	1329837-73-1
Molecular Formula:	$C_{18}H_{14}D_4F_3NO_4$
Molecular Weight:	373.36
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	Etofenamate-d_4 is the deuterium labeled Etofenamate. Etofenamate, a non-steroid anti-inflammatory agent (NSAID) and a non-selective COX inhibitor, possesses analgesic, anti-rheumatic, antipyretic and anti-inflammatory properties. Etofenamate is used in the research for osteoarthritis, arthritis and other inflammatory diseases[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[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]. Bender T, Bariska J, Rojkovich B, Bálint G. Etofenamate levels in human serum and synovial fluid following iontophoresis. Arzneimittelforschung. 2001;51(6):489-92.

[3]. Fraga A, de Almeida M, Moreira-da-Silva V et al. Intramuscular Etofenamate versus Diclofenac in the Relief of Renal Colic : A Randomised, Single-Blind, Comparative Study. Clin Drug Investig. 2003;23(11):701-6.

[4]. Joana Marto, et al. Topical gels of etofenamate: in vitro and in vivo evaluation. Pharm Dev Technol. 2015;20(6):710-5.

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