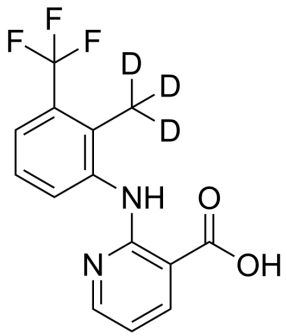
Flunixin-d_3

Cat. No.:	HY-121046S
CAS No.:	1015856-60-6
Molecular Formula:	$C_{14}H_8D_3F_3N_2O_2$
Molecular Weight:	299.26
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flunixin-d_3 is the deuterium labeled Flunixin. Flunixin Meglumine is a potent inhibitor of COX used as analgesic agent with anti-inflammatory and antipyretic activity[1][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]. Cox L, et al. Levomepromazine for nausea and vomiting in palliative care. Cochrane Database Syst Rev. 2015;2015(11):CD009420. Published 2015 Nov 2.

[2]. Cheng Z, et al. Measurement of cyclooxygenase inhibition in vivo: a study of two non-steroidal anti-inflammatory drugs in sheep. Inflammation. 1998 Aug;22(4):353-66.

[3]. Bryant, C.E., B.A. Farnfield, and H.J. Janicke, Evaluation of the ability of carprofen and flunixin meglumine to inhibit activation of nuclear factor kappa B. Am J Vet Res, 2003. 64(2): p. 211-5.

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