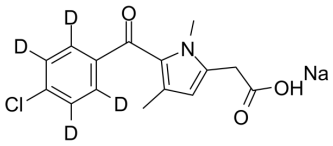
Zomepirac-d4 sodium salt

Cat. No.:	HY-B0890S
CAS No.:	85577-28-2
Molecular Formula:	$C_{15}H_{10}D_4ClNNaO_3$
Molecular Weight:	317.74
Target:	PGE synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Zomepirac-d4 sodium salt is the deuterium labeled Zomepirac sodium salt. Zomepirac sodium salt (McN-2783-21-98) is a potent prostaglandin biosynthesis inhibitor. Zomepirac sodium salt is a non-steroidal anti-inflammatory drug (NSAID). Zomepirac sodium salt can cause immune-mediated liver injury[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Min Wang, et al. Hepatic covalent adduct formation with zomepirac in the CD26-deficient mouse. J Gastroenterol Hepatol. 2002 Jan;17(1):66-71.

[3]. T P Pruss, et al. Evaluation of the analgesic properties of zomepirac. J Clin Pharmacol. 1980 Apr;20(4):216-22.

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