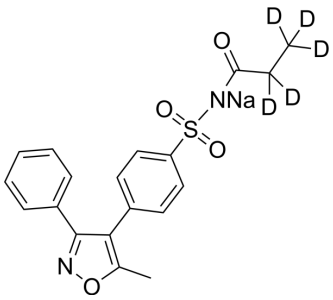
Parecoxib-d_5 sodium

Cat. No.:	HY-17474AS
Molecular Formula:	$C_{19}H_{12}D_5N_2NaO_4S$
Molecular Weight:	397.43
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	Parecoxib-d5 (sodium) is the deuterium labeled Parecoxib sodium. Parecoxib Sodium (SC 69124A) is a highly selective and orally active COX-2 inhibitor, the proagent of Valdecoxib (HY-15762). Parecoxib Sodium is a nonsteroidal anti-inflammatory agent (NSAID) and inhibits prostaglandin (PG) synthesis. Parecoxib Sodium can be used for the relief of acute postoperative pain and symptoms of chronic inflammatory conditions such as osteoarthritis and rheumatoid arthritis in vivo[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]. Jun Tang, et al. Effect of parecoxib, a novel intravenous cyclooxygenase type-2 inhibitor, on the postoperative opioid requirement and quality of pain control. Anesthesiology

[3]. J L Mateos, et al.[Selective inhibitors of cyclooxygenase-2 (COX-2), celecoxib and parecoxib: a systematic review]. Drugs Today (Barc). 2010 Feb;46 Suppl A:1-25.

[4]. Bo Wang, et al. Chronic administration of parecoxib exerts anxiolytic-like and memory enhancing effects and modulates synaptophysin expression in mice. BMC Anesthesiol. 2017 Nov 13;17(1):152.

[5]. Lin-Yong Li, et al. Parecoxib inhibits glioblastoma cell proliferation, migration and invasion by upregulating miRNA-29c. Biol Open. 2017 Mar 15;6(3):311-316.

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