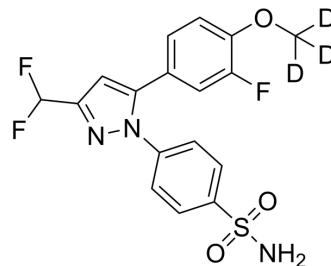


## Deracoxib-d<sub>3</sub>

<b>Cat. No.:</b>	HY-17509S
<b>CAS No.:</b>	2012598-48-8
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>11</sub> D <sub>3</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	400.39
<b>Target:</b>	Apoptosis; COX; Isotope-Labeled Compounds
<b>Pathway:</b>	Apoptosis; Immunology/Inflammation; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Deracoxib-d <sub>3</sub> is the deuterium labeled Deracoxib. Deracoxib, a selective cyclooxygenase-2 inhibitor, is a non-narcotic, non-steroidal anti-inflammatory drug (NSAID).
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Bienhoff, S.E., et al., Efficacy and safety of deracoxib for control of postoperative pain and inflammation associated with soft tissue surgery in dogs. *Vet Surg*, 2012. 41(3): p. 336-44.
- [2]. McMillan, S.K., et al., Antitumor effects of deracoxib treatment in 26 dogs with transitional cell carcinoma of the urinary bladder. *J Am Vet Med Assoc*, 2011. 239(8): p. 1084-9.
- [3]. Royals, S.R., et al., Investigation of the effects of deracoxib and piroxicam on the in vitro viability of osteosarcoma cells from dogs. *Am J Vet Res*, 2005. 66(11): p. 1961-7.
- [4]. Ustun Alkan, F., et al., The effects of piroxicam and deracoxib on canine mammary tumour cell line. *ScientificWorldJournal*, 2012. 2012: p. 976740.
- [5]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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