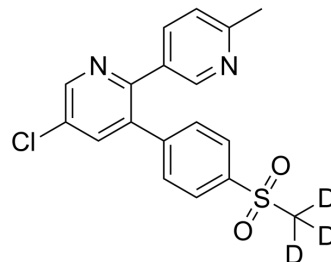


Etoricoxib-d₃

Cat. No.:	HY-15321S2
CAS No.:	850896-71-8
Molecular Formula:	C ₁₈ H ₁₂ D ₃ ClN ₂ O ₂ S
Molecular Weight:	361.86
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Etoricoxib-d ₃ is the deuterium labeled Etoricoxib[1]. Etoricoxib (MK-0663) is a non steroidal anti-inflammatory agent, acting as a selective and orally active COX-2 inhibitor, with IC50s of 1.1 μM and 116 μM for COX-2 and COX-1 in human whole blood[2][3][4].
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 Feb;53(2):211-216.
- [2]. Riendeau D, et al. Etoricoxib (MK-0663): preclinical profile and comparison with other agents that selectively inhibit cyclooxygenase-2. *J Pharmacol Exp Ther*. 2001 Feb;296(2):558-66.
- [3]. Kunak CS, et al. The Effect of Etoricoxib on Hepatic Ischemia-Reperfusion Injury in Rats. *Oxid Med Cell Longev*. 2015;2015:598162.
- [4]. Tanwar L, et al. Anti-proliferative and apoptotic effects of etoricoxib, a selective COX-2 inhibitor, on 1,2-dimethylhydrazine dihydrochloride-induced colon carcinogenesis. *Asian Pac J Cancer Prev*. 2010;11(5):1329-33.

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

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