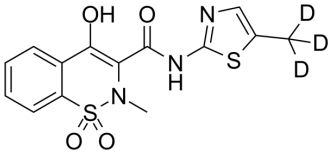
Meloxicam-d3-1

Cat. No.:	HY-B0261S1
CAS No.:	1227358-55-5
Molecular Formula:	$C_{14}H_{10}D_3N_3O_4S_2$
Molecular Weight:	354.42
Target:	Apoptosis; COX; Autophagy
Pathway:	Apoptosis; Immunology/Inflammation; Autophagy
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Meloxicam-d_3-1 is the deuterium labeled Meloxicam. Meloxicam is a non-steroidal antiinflammatory agent, inhibits COX activity, with IC50s of 0.49 μM and 36.6 μM for COX-2 and COX-1, respectively.
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]. Lazer ES, et al. Effect of structural modification of enol-carboxamide-type nonsteroidal antiinflammatory drugs on COX-2/COX-1 selectivity. J Med Chem. 1997 Mar 14;40(6):980-9.

[3]. Iturriaga MP, et al. Meloxicam decreases the migration and invasion of CF41.Mg canine mammary carcinoma cells. Oncol Lett. 2017 Aug;14(2):2198-2206.

[4]. Fikry EM, et al. Rutin and meloxicam attenuate paw inflammation in mice: Affecting sorbitol dehydrogenase activity. J Biochem Mol Toxicol. 2018 Feb;32(2).

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