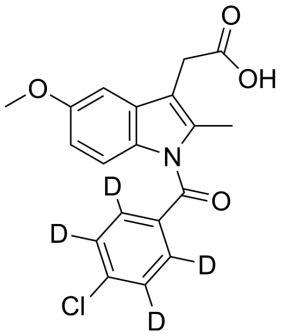
Indomethacin-d_4

Cat. No.:	HY-14397S
CAS No.:	87377-08-0
Molecular Formula:	$C_{19}H_{12}D_4ClNO_4$
Molecular Weight:	361.81
Target:	COX; Autophagy; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Autophagy; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Indomethacin-d_4 is a deuterium labeled Indomethacin. Indomethacin is a potent, blood-brain permeable and nonselective inhibitor of COX1 and COX2, with IC50s of 18 nM and 26 nM for human COX-1 and COX-2, respectively, in CHO cells[1]. Indomethacin disrupts autophagic flux by disturbing the normal functioning of lysosomes[2].	
IC_{50} & Target	Human COX-1 18 nM (IC_{50}, in CHO cells)	Human COX-2 26 nM (IC_{50}, in CHO cells)

REFERENCES

[1]. Riendeau D, et al. Biochemical and pharmacological profile of a tetrasubstituted furanone as a highly selective COX-2 inhibitor. Br J Pharmacol. 1997 May;121(1):105-17.

[2]. Jorge Vallecillo-Hernández, et al. Indomethacin Disrupts Autophagic Flux by Inducing Lysosomal Dysfunction in Gastric Cancer Cells and Increases Their Sensitivity to Cytotoxic Drugs. Sci Rep. 2018 Feb 26;8(1):3593.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA