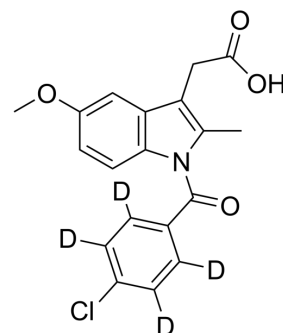


Indomethacin-d₄

Cat. No.:	HY-14397S
CAS No.:	87377-08-0
Molecular Formula:	C ₁₉ H ₁₂ D ₄ ClNO ₄
Molecular Weight:	361.81
Target:	COX; Autophagy; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



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 IC ₅₀ s 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].	
IC₅₀ & 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.

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

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