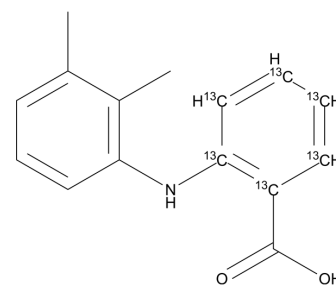


## Mefenamic acid-<sup>13</sup>C<sub>6</sub>

<b>Cat. No.:</b>	HY-B0574S2
<b>CAS No.:</b>	1325559-19-0
<b>Molecular Formula:</b>	C <sub>9</sub> <sup>13</sup> C <sub>6</sub> H <sub>15</sub> NO <sub>2</sub>
<b>Molecular Weight:</b>	247.24
<b>Target:</b>	COX; Isotope-Labeled Compounds
<b>Pathway:</b>	Immunology/Inflammation; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Mefenamic acid- <sup>13</sup> C <sub>6</sub> is the <sup>13</sup> C-labeled Mefenamic acid. Mefenamic acid is a non-steroidal anti-inflammatory agent, acting as a competitive inhibitor of hCOX-1 and hCOX-2, with IC50s of 40 nM and 3 μM for hCOX-1 and hCOX-2, respectively.
<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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Gierse JK, et al. Expression and selective inhibition of the constitutive and inducible forms of human cyclo-oxygenase. *Biochem J.* 1995 Jan 15;305 (Pt 2):479-84.
- [3]. Hashempour MA, et al. In Vitro Cytotoxic Effects of Celecoxib, Mefenamic Acid, Aspirin and Indometacin on Several Cells Lines. *J Dent (Shiraz).* 2016 Sep;17(3):219-25.

**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