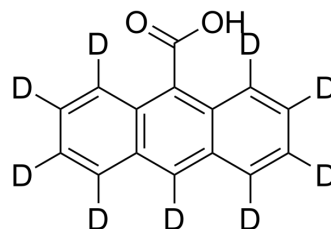


Anthracene-9-carboxylic acid-d₉

Cat. No.:	HY-101329S
CAS No.:	1219803-78-7
Molecular Formula:	C ₁₅ HD ₉ O ₂
Molecular Weight:	231.29
Target:	Chloride Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anthracene-9-carboxylic acid-d ₉ is the deuterium labeled Anthracene-9-carboxylic acid[1]. Anthracene-9-carboxylic acid (9-Anthracenecarboxylic acid) is an anthracene derivative traditionally used to block and identify Ca ²⁺ -activated Cl ⁻ currents (CaCCs) in various cell types, like diverse smooth muscle cells, epithelial cells and salivary gland cells[2].
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]. Cherian OL, Menini A, Boccaccio A. Multiple effects of anthracene-9-carboxylic acid on the TMEM16B/anoctamin2 calcium-activated chloride channel. *Biochim Biophys Acta.* 2015 Apr;1848(4):1005-13.
- [3]. Piper AS, Greenwood IA. Anomalous effect of anthracene-9-carboxylic acid on calcium-activated chloride currents in rabbit pulmonary artery smooth muscle cells. *Br J Pharmacol.* 2003 Jan138(1):31-8.

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