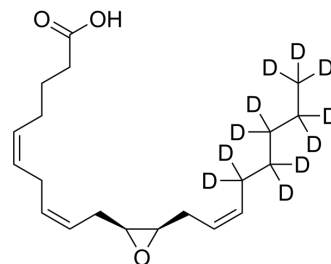


## (±)11(12)-EET-d<sub>11</sub>

<b>Cat. No.:</b>	HY-130494S
<b>CAS No.:</b>	2699607-19-5
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>21</sub> D <sub>11</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	331.53
<b>Target:</b>	NOD-like Receptor (NLR)
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(±)11(12)-EET-d <sub>11</sub> is the deuterium labeled (±)11(12)-EET. (±)11(12)-EET is a NLRP3 inflammasome inhibitor. (±)11(12)-EET can be used for the research of anti-inflammatory, angiogenic and cardioprotective[1][2][3][4][6].
<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]. Luo XQ, et al. Epoxyeicosatrienoic acids inhibit the activation of NLRP3 inflammasome in murine macrophages. *J Cell Physiol.* 2020;235(12):9910-9921.
- [3]. Chacos N, et al. Novel epoxides formed during the liver cytochrome P-450 oxidation of arachidonic acid. *Biochem Biophys Res Commun.* 1982;104(3):916-922.
- [4]. Oliw EH, et al. Oxygenation of arachidonic acid by hepatic monooxygenases. Isolation and metabolism of four epoxide intermediates. *J Biol Chem.* 1982;257(7):3771-3781.
- [5]. Capdevila JH, et al. Cytochrome P450 and arachidonic acid bioactivation. Molecular and functional properties of the arachidonate monooxygenase. *J Lipid Res.* 2000;41(2):163-181.
- [6]. Wang Z, et al. Arachidonic acid inhibits basolateral K channels in the cortical collecting duct via cytochrome P-450 epoxygenase-dependent metabolic pathways. *Am J Physiol Renal Physiol.* 2008;294(6):F1441-F1447.
- [7]. Spector AA. Arachidonic acid cytochrome P450 epoxygenase pathway. *J Lipid Res.* 2009;50 Suppl(Suppl):S52-S56.

**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