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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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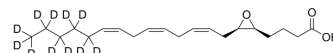
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5,6-Epoxyeicosatrienoic acid-d₁₁

Cat. No.:	HY-132184S
CAS No.:	1881277-30-0
Molecular Formula:	C ₂₀ H ₂₁ D ₁₁ O ₃
Molecular Weight:	331.53
Target:	Isotope-Labeled Compounds; Adrenergic Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

5,6-Epoxyeicosatrienoic acid-d₁₁ (5,6-EET-d₁₁) is deuterium labeled 5,6-Epoxyeicosatrienoic acid. 5,6-Epoxyeicosatrienoic acid (5,6-EET; (±)5,6-EpETrE) is a fully racemic version of the enantiomeric forms biosynthesized from arachidonic acid by cytochrome P450 enzymes. In solution, 5,6-Epoxyeicosatrienoic acid degrades into 5,6-DiHET and 5,6-δ-lactone, which can be converted to 5,6-DiHET and quantified by GC-MS. In neuroendocrine cells, such as the anterior pituitary and pancreatic islets, 5,6-Epoxyeicosatrienoic acid has been implicated in the mobilization of calcium and hormone secretion. 5,6-Epoxyeicosatrienoic acid is an inhibitor of T-type voltage-gated calcium channels (Cav3) that inhibits isoforms Cav3.1, Cav3.2 (IC₅₀=0.54 μM), and Cav3. and decreases nifedipine-resistant phenylephrine-induced vasoconstriction in isolated mouse mesenteric arteries via Cav3.2 blockade when used at a concentration of 3 μM. In addition, it is a substrate of COX-1 and COX-2, as measured by oxygen consumption and product formation assays when used at a concentration of 50 μM. (±)5,6-Epoxyeicosatrienoic acid is provided as a mixture of the free acid and lactone^[1].

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Falck, et al. Epoxyeicosatrienoic acids stimulate glucagon and insulin release from isolated rat pancreatic islets. Biochem. Biophys. Res. Commun. 114(2), 743-749 (1983).

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

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