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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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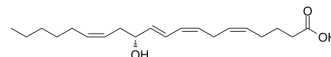
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12(R)-HETE

Cat. No.:	HY-124404
CAS No.:	82337-46-0
Molecular Formula:	C ₂₀ H ₃₂ O ₃
Molecular Weight:	320.47
Target:	Na ⁺ /K ⁺ ATPase; Aryl Hydrocarbon Receptor
Pathway:	Membrane Transporter/Ion Channel; Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description

12(R)-HETE is a metabolite of Arachidonic acid, AA (HY-109590) and can be found in skin from psoriatic lesions. 12(R)-HETE induces lymphocytes chemotaxis, stimulates calcium mobilization and chemotaxis in neutrophils via the BLT1 receptor, activates the aryl hydrocarbon receptor, and inhibits Na⁺/K⁺ ATPase activity in the corneal epithelium^{[1][2][3][4]}.

REFERENCES

- [1]. Schwartzman ML, et al., 12(R)-hydroxyicosatetraenoic acid: a cytochrome-P450-dependent arachidonate metabolite that inhibits Na⁺,K⁺-ATPase in the cornea. Proc Natl Acad Sci U S A. 1987 Nov;84(22):8125-9.
- [2]. Bacon KB, et al., Contrasting in vitro lymphocyte chemotactic activity of the hydroxyl enantiomers of 12-hydroxy-5,8,10,14-eicosatetraenoic acid. Br J Pharmacol. 1988 Nov;95(3):966-74.
- [3]. Powell WS, et al., Effects of oxo and dihydro metabolites of 12-hydroxy-5,8,10,14-eicosatetraenoic acid on chemotaxis and cytosolic calcium levels in human neutrophils. J Leukoc Biol. 1995 Feb;57(2):257-63.
- [4]. Chiaro CR, et al., 12(R)-Hydroxy-5(Z),8(Z),10(E),14(Z)-eicosatetraenoic acid [12(R)-HETE], an arachidonic acid derivative, is an activator of the aryl hydrocarbon receptor. Mol Pharmacol. 2008 Dec;74(6):1649-56.

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

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