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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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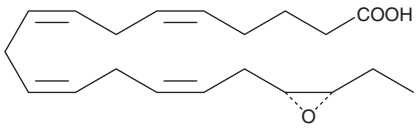
PRODUCT INFORMATION

17R(18S)-EpETE

Item No. 28630

CAS Registry No.:	725246-18-4
Formal Name:	16-[(2R,3S)-3-ethyl-2-oxiranyl]-5Z,8Z,11Z,14Z-hexadecatetraenoic acid
Synonyms:	17R,18S-EEQ, 17R,18S-epoxy Eicosatetraenoic Acid
MF:	$C_{20}H_{30}O_3$
FW:	318.5
Purity:	≥98%
Supplied as:	A solution in ethanol
Storage:	-20°C
Stability:	≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

17R(18S)-EpETE is an oxylipin and a cytochrome P450 metabolite of eicosapentaenoic acid (EPA; Item Nos. 90110 | 90110.1 | 21908).[1,2] 17R(18S)-EpETE is an activator of large-conductance calcium-activated potassium (K_{Ca}1.1/BK) channels, increasing the potassium current amplitude by 15-fold in isolated rat cerebral artery vascular smooth muscle cells (VSMCs) at +60 mV when used at a concentration of 50 nM.[2] It has negative chronotropic effects in isolated neonatal rat cardiomyocytes (NRCMs; EC_{50} = ~1-2 nM) and prevents calcium-induced increases in the spontaneous beating of NRCMs.[3,4]

References

1. Schwarz, D., Kisselev, P., Ericksen, S.S., *et al.* Arachidonic and eicosapentaenoic acid metabolism by human CYP1A1: Highly stereoselective formation of 17(R),18(S)-epoxyeicosatetraenoic acid. *Biochem. Pharmacol.* **67(8)**, 1445-1457 (2004).
2. Lauterbach, B., Barbosa-Sicard, E., Wang, M.H., *et al.* Cytochrome P450-dependent eicosapentaenoic acid metabolites are novel BK channel activators. *Hypertension* **39(2 Pt. 2)**, 609-613 (2002).
3. Falck, J.R., Wallukat, G., Puli, N., *et al.* 17(R),18(S)-Epoxyeicosatetraenoic acid, a potent eicosapentaenoic acid (EPA) derived regulator of cardiomyocyte contraction: Structure-activity relationships and stable analogues. *J. Med. Chem.* **54(12)**, 4109-4118 (2011).
4. Arnold, C., Markovic, M., Blossey, K., *et al.* Arachidonic acid-metabolizing cytochrome P450 enzymes are targets of omega-3 fatty acids. *J. Biol. Chem.* **285(43)**, 32720-32733 (2010).

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