

Product Data Sheet

Product Name: 8S(9R)-EET

Cat. No.: GC91504

Chemical Properties

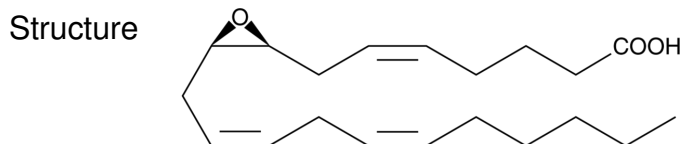
Cas. No. 123931-39-5

Formula $C_{20}H_{32}O_3$ M.Wt 320.5

Solubility Acetonitrile: Sparingly soluble: 1-10 mg/ml, Ethanol: Slightly soluble: 0.1-1 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.



Background

8S(9R)-EET is an oxylipin and a metabolite of arachidonic acid. [1] It is formed *via* oxidation of arachidonic acid by the cytochrome P450 (CYP) isoforms CYP1A1, CYP1A2, CYP2B1, and CYP2B2. 8S(9R)-EET induces relaxation of precontracted isolated dog epicardial arterioles ($\text{EC}_{50} = 121 \text{ pM}$). [2] Intrarenal infusion of 8S(9R)-EET (0.5, 1, or $2 \mu\text{g/kg}$ per minute) induces glomerular vasoconstriction and reduces the glomerular filtration rate in rats. [3]

References:

- [1].Capdevila, J.H., Karara, A., Waxman, D.J., et al. Cytochrome P-450 enzyme-specific control of the regio- and enantiofacial selectivity of the microsomal arachidonic acid epoxygenase. *J. Biol. Chem.* 265(19):10865-10871 (1990).
- [2].Zhang, Y., Oltman, C.L., Lu, T., et al. EET homologs potently dilate coronary microvessels and activate BKCa channels. *Am. J. Physiol. Heart Circ. Physiol.* 280(6):H2430-H2440 (2001).
- [3].Kato, T., Takahashi, K., Capdevila, J., et al. Glomerular stereospecific synthesis and

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

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hemodynamic actions of 8,9-epoxyeicosatrienoic acid in rat kidneyAm. J. Physiol.261(4 Pt 2)F578-F586(1991).

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