

Product Data Sheet

Product Name: 14,15-EE-5(Z)-E

Cat. No.: GC40424

Chemical Properties

Cas. No. 519038-92-7

SMILES CCCCC[C@H]1O[C@H]1CCCCCCC/C=C\CCCC(=O)O

Formula C₂₀H₃₆O₃ M.Wt 324.5

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 0.5 mg/ml
Storage Store at -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.



NOTE: Relative stereochemistry shown in chemical structure

Background

Epoxyeicosatrienoic acids (EETs), such as 11(12)-EET and 14(15)-EET, are cytochrome P450 metabolites of arachidonic acid that have been identified as endothelium-derived hyperpolarizing factors with vasodilator activity. 14,15-EE-5(Z)-E is a structural analog of 14,15-epoxyeicosatrienoic acids (14,15-EET) that antagonizes EET-induced relaxation of vascular smooth muscle. Relaxation of U46619-constricted bovine arteries by 14,15-EET could be inhibited approximately 80% by 14,15-EE-5(Z)-E at a concentration of 10 μM. 14,15-EE-5(Z)-E does not appear to antagonize nitric oxide- or iloprost-mediated vascular relaxation.

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

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