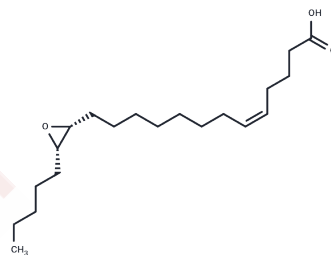


## 14,15-EE-5(Z)-E

## Chemical Properties

CAS No. :	519038-92-7
Formula:	C20H36O3
Molecular Weight:	324.505
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	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 $\mu$ M. 14,15-EE-5(Z)-E does not appear to antagonize nitric oxide- or iloprost-mediated vascular relaxation.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMF: 10 mg/mL (30.82 mM),Sonication is recommended. PBS (pH 7.2): 0.5 mg/mL (1.54 mM),Sonication is recommended. DMSO: 10 mg/mL (30.82 mM),Sonication is recommended. Ethanol: 50 mg/mL (154.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0816 mL	15.4078 mL	30.8157 mL
5 mM	0.6163 mL	3.0816 mL	6.1631 mL
10 mM	0.3082 mL	1.5408 mL	3.0816 mL
50 mM	0.0616 mL	0.3082 mL	0.6163 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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