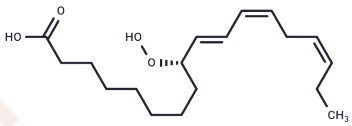
# Data Sheet (Cat.No.T37867)

TargetMol

## 9(S)-HpOTrE

### Chemical Properties



CAS No. : 111004-08-1

Formula: C18H30O4

Molecular Weight: 310.434

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 | 9(S)-HpOTrE, a monohydroperoxy polyunsaturated fatty acid, is produced by the action of 5-lipoxygenase (5-LO) on α-linolenic acid. It can be metabolized to colnelenic acid by a divinyl ether synthase activity found in garlic and potato microsomal fractions. 9(S)-HpOTrE also serves as a substrate for further oxidation by both soybean and potato LOs, resulting in 9,16-dihydroperoxy acid formation. The suicide inactivation of LOs when 9(S)-HpOTrE is used as a substrate is thought to occur via the formation of an unstable epoxide. |
| Targets(IC50) | Others,Endogenous Metabolite |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: >50 mg/mL (from 13(S)-HODE),Sonication is recommended.<br>PBS (pH 7.2): >1 mg/mL (from 13(S)-HODE),Sonication is recommended.<br>DMF: >50 mg/mL (from 13(S)-HODE),Sonication is recommended.<br>Ethanol: >50 mg/mL (from 13(S)-HODE),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.2213 mL | 16.1067 mL | 32.2134 mL |
| 5 mM | 0.6443 mL | 3.2213 mL | 6.4427 mL |
| 10 mM | 0.3221 mL | 1.6107 mL | 3.2213 mL |
| 50 mM | 0.0644 mL | 0.3221 mL | 0.6443 mL |

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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