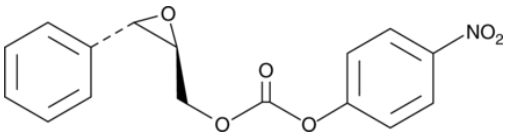
Product Data Sheet

Product Name: S-NEPC
Cat. No.: GC44907

Chemical Properties

Cas. No.	147349-28-8		
SMILES	O=C(OC1=CC=C([N+]([O-])=O)C=C1)OC[C@H]2[C@@H](O2)C3=CC=CC=C3		
Formula	C16H13NO6	M.Wt	315.3
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,DMSO:PBS (pH 7.2) (1:2): 0.15 mg/ml,Ethanol: 2 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.		
Structure			

Background

Cytochrome P450 metabolites of arachidonic acid, such as 11(12)-EpETrE and 14(15)-EpETrE have been identified as endothelium derived hyperpolarizing factors with vasodilator activity. Soluble epoxide hydrolase (sEH) catalyzes the conversion of EpETrEs to the corresponding DiHETrEs thereby diminishing their activity. Inhibitors of sEH may therefore have clinical utility for treating hypertension and systemic inflammation. S-NEPC is a colorimetric substrate used to measure sEH activity. It also is a substrate for Glutathione S-transferase, microsomal epoxide hydrolase and porcine liver carboxylesterase. Hydrolysis of S-NEPC by sEH yields 4-nitrophenol which can be quantified spectrophotometrically at 405 nm. S-NEPC is adaptable for use in 96-well microwell plate readers.

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