

Product Data Sheet

Product Name: Cholesteryl Arachidonate

Cat. No.: GC43255

Chemical Properties

Cas. No. 604-34-2

SMILES C[C@]12C(C[C@@H](OC(CCC/C=C\C/C/C=C\C/C/C=C\CCCC)=O)CC2)=CC[C@]3([H])[C@]1([H])CC[C@@]4(C)[C@@]3([H])CC[C@@]4([C@@H](CCCC(C)C)C)[H]

Formula C₄₇H₇₆O₂

M.Wt 673.1

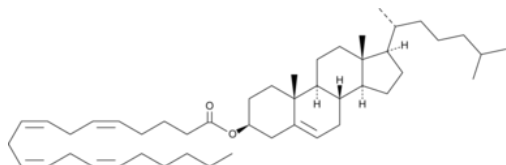
Solubility Chloroform: 10 mg/ml

Storage Store at -20°C

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

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

Structure



Background

Cholesteryl arachidonate is a cholesterol ester that is found in plasma and the adrenal gland. It is a component of low-density lipoprotein (LDL) and oxidation of the arachidonate moiety contributes to macrophage activation and foam cell formation in atherosclerosis. Cholesteryl arachidonate undergoes hydrolysis to release arachidonic acid during ACTH-stimulated prostaglandin synthesis in rat adrenocortical cells. Levels of cholesteryl arachidonate are increased in the bronchoalveolar lavage fluid (BALF) in pediatric cystic fibrosis patients compared to healthy controls as well as in placentas of women with chorioamnionitis.

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

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