

Product Data Sheet

Product Name: CAY10641

Cat. No.: GC47049

Chemical Properties

Cas. No. 1233706-89-2

SMILES OC(CN1C(C=CC(C(O)=O)=C2)=C2C(C(C(C)C)=O)=C1)COC3=CC=C(OC4=CC=CC=C4)C=C3

Formula C₂₈H₂₇NO₆

M.Wt 473.5

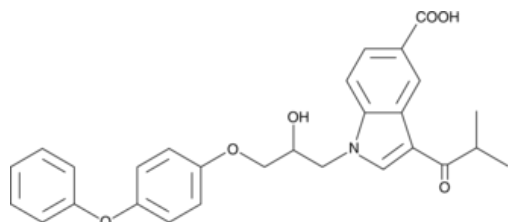
Solubility DMF: 30 mg/ml, DMF:PBS (pH 7)
(1:10): 0.1 mg/ml, DMSO: 10
mg/ml, Ethanol: 3 mg/ml

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

Cytosolic phospholipase A₂α (cPLA₂α) specifically catalyzes the hydrolysis of arachidonic acid from the *sn*-2-ester position of membrane phospholipids, playing a central role in initiating the synthesis of prostaglandins and leukotrienes, both important mediators of the inflammatory process.¹ CAY10641 is an inactive alcohol derivative of a highly potent (IC₅₀ = 12 nM) cPLA₂α inhibitor.² The parent compound demonstrates strong anti-inflammatory effects when applied topically at a dose of 0.1 mg/ear in a mouse model of acute irritant contact dermatitis.² CAY10641 is rapidly cleared from the blood stream (only 0.5 µg/ml remains 30 minutes after 10 mg/kg intravenous administration to mice).² However, no other biological effects have been reported.

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

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1.Schaloske, R.H., and Dennis, E.A.The phospholipase A2 superfamily and its group numbering systemBiochemica et Biophysica Acta17611246-1259(2006) 2.Drews, A., Bovens, S., Roebrock, K., et al.1-(5-carboxyindol-1-yl)propan-2-one inhibitors of human cytosolic phospholipase A2 α with reduced lipophilicity: Synthesis, biological activity, metabolic stability, solubility, bioavailability, and topical in vivo activityJournal of Medicinal Chemistry535165-5178(2010)

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