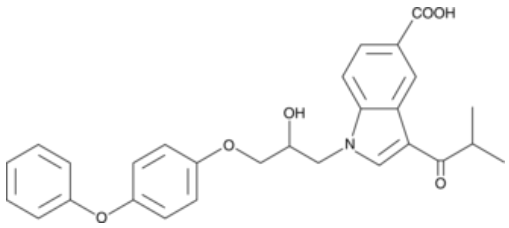
Product Data Sheet

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 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

Cytosolic phospholipase A2α ($cPLA_2α$) 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 (IC_{50} = 12 nM) $cPLA_2α$ 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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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 A2α with reduced lipophilicity: Synthesis, biological activity, metabolic stability, solubility, bioavailability, and topical in vivo activityJournal of Medicinal Chemistry535165-5178(2010)

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA