

Product Data Sheet

Product Name: CAY10590

Cat. No.: GC43179

Chemical Properties

Cas. No. 1101136-50-8

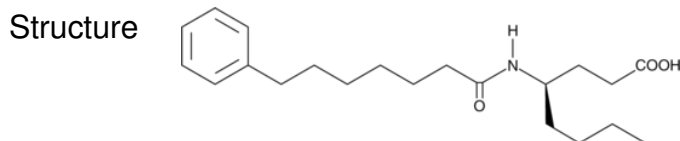
SMILES O=C(N[C@H](CCCC)CCC(O)=O)CCCCCCC1=CC=CC=C1

Formula C₂₁H₃₃NO₃ M.Wt 347.5

Solubility DMF: 25 mg/ml, DMSO: 20 mg/ml, Ethanol: 30 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.



Background

Phospholipase A2 (PLA2) catalyzes the hydrolysis of fatty acids at the sn-2 position of glycerophospholipids, liberating arachidonic acid for subsequent eicosanoid synthesis. Three primary types of PLA2 exist: secretory (sPLA2), calcium-dependent cytosolic (cPLA2), and calcium-independent cytosolic (iPLA2). Of these three enzymes, cPLA2 is the rate-limiting stimulus for release of arachidonic acid whereas sPLA2 amplifies the action of cPLA2 and regulates phagocytosis and foam cell formation. CAY10590, a simple amide based on (R)-γ-norleucine, is a potent and selective inhibitor of sPLA2. It exhibits 95% inhibition (XI(50) = 0.003) of sPLA2 at 0.091 mole fraction without affecting the activities of cPLA2 or iPLA2.

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

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