

Product Data Sheet

Product Name: CAY10583

Cat. No.: GC41044

Chemical Properties

Cas. No. 862891-27-8

Chemical Name 4'-[[[(1-oxopentyl)phenylamino]methyl]-[1,1'-biphenyl]-2-carboxylic acid

SMILES CCCCC(N(C1=CC=CC=C1)CC2=CC=C(C3=C(C(O)=O)C=CC=C3)C=C2)=O

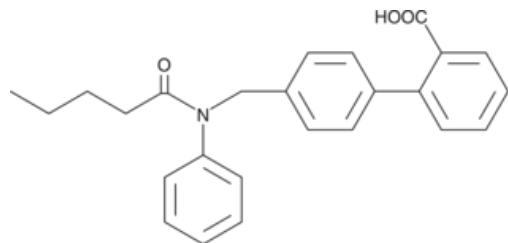
Formula C₂₅H₂₅NO₃ M.Wt 387.5

Solubility 0.25mg/mL in ethanol, 10mg/mL in DMSO, or in DMF 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

Leukotriene B₄ (LTB₄) promotes a number of leukocyte functions including aggregation, stimulation of ion fluxes, superoxide anion production, chemotaxis, and chemokinesis. Two G protein-coupled receptors, BLT₁ and BLT₂ mediate the actions of LTB₄. CAY10583 is a potent, selective full agonist for BLT₂ with an EC₅₀ value of 20 nM. It does not displace [3H]-leukotriene B₄ (LTB₄) binding to BLT₁ at concentrations >1 μM and activates BLT₂ at significantly lower concentrations than LTB₄ (EC₅₀ = 170 nM). CAY10583 dose dependently increases intracellular calcium stores and induces ERK phosphorylation in Chinese hamster ovary (CHO) cells expressing BLT₂ with no effect on CHO cells expressing BLT₁. [1]

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

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Reference:

[1]. Iizuka, Y., Yokomizo, T., Terawaki, K., et al. Characterization of a mouse second leukotriene B₄ receptor, mBLT₂. BLT₂-dependent ERK activation and cell migration of primary mouse keratinocytes. The Journal of Biological Chemistry 280(26), 24816-24823 (2005).

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