

Product Data Sheet

Product Name: CAY10410

Cat. No.: GC40384

Chemical Properties

Cas. No. 596104-94-8

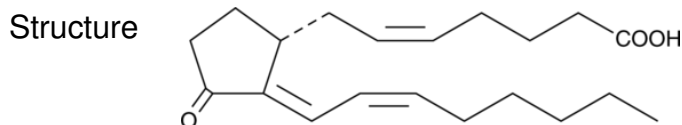
SMILES O=C1/C([C@@H](C/C=C\CCCC(O)=O)CC1)=C/C=C\CCCC

Formula C₂₀H₃₀O₃ M.Wt 318.5

Solubility DMF: 100 mg/ml, DMSO: 20 mg/ml, Ethanol: 75 mg/ml, PBS (7.2): 2.7 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

CAY10410 is an analog of prostaglandin D₂/prostaglandin J₂ (PGD₂/PGJ₂) with structural modifications intended to give it PPAR γ ligand activity and resistance to metabolism. 15-deoxy- δ 12,14-PGJ₂ has been shown to be a potent ligand for PPAR γ . Metabolism of the cyclopentenone prostaglandins PGA₂, PGJ₂, and δ 12-PGJ₂ occurs via glutathione addition across the α,β unsaturated enone. CAY10410 was designed as an analog of the PPAR γ -binding prostaglandins which could not undergo this conjugation reaction. In human neuroblastoma SH-SY5Y cells, CAY10410 was not cytotoxic at up to 25 μ M. It also failed to covalently modify thioredoxin or induce oxidative stress at 50 μ M.

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

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