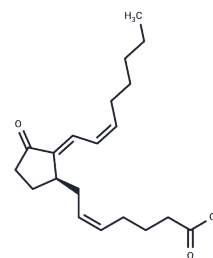


CAY10410

## Chemical Properties

CAS No. : 596104-94-8  
 Formula: C<sub>20</sub>H<sub>30</sub>O<sub>3</sub>  
 Molecular Weight: 318.45  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CAY10410 is an analog of prostaglandin D <sub>2</sub> /prostaglandin J <sub>2</sub> (PGD <sub>2</sub> /PGJ <sub>2</sub> ) with structural modifications intended to give it PPAR <sub>γ</sub> ligand activity and resistance to metabolism. 15-deoxy-δ <sup>12,14</sup> -PGJ <sub>2</sub> has been shown to be a potent ligand for PPAR <sub>γ</sub> . Metabolism of the cyclopentenone prostaglandins PGA <sub>2</sub> , PGJ <sub>2</sub> , and δ <sup>12</sup> -PGJ <sub>2</sub> occurs via glutathione addition across the α,β unsaturated enone. CAY10410 was designed as an analog of the PPAR <sub>γ</sub> -binding prostaglandins which could not undergo this conjugation reaction. In human neuroblastoma SH-SY5Y cells, CAY10410 was not cytotoxic at up to 25 μM. It also failed to covalently modify thioredoxin or induce oxidative stress at 50 μM.
Targets(IC <sub>50</sub> )	Others,PPAR

## Solubility Information

Solubility	DMF: 100 mg/mL (314.02 mM),Sonication is recommended. PBS (pH 7.2): 2.7 mg/mL (8.48 mM),Sonication is recommended. Ethanol: 75 mg/mL (235.52 mM),Sonication is recommended. DMSO: 20 mg/mL (62.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.1402 mL	15.7011 mL	31.4021 mL
5 mM	0.628 mL	3.1402 mL	6.2804 mL
10 mM	0.314 mL	1.5701 mL	3.1402 mL
50 mM	0.0628 mL	0.314 mL	0.628 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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