

CAY10410

## Chemical Properties

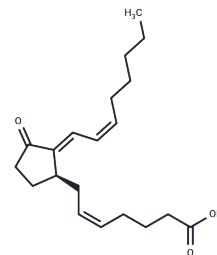
CAS No. : 596104-94-8

Formula: C<sub>20</sub>H<sub>30</sub>O<sub>3</sub>

Molecular Weight: 318.45

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## 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 $\gamma$ ligand activity and resistance to metabolism. 15-deoxy- $\delta$ 12,14-PGJ <sub>2</sub> has been shown to be a potent ligand for PPAR $\gamma$ . Metabolism of the cyclopentenone prostaglandins PGA <sub>2</sub> , PGJ <sub>2</sub> , and $\delta$ 12-PGJ <sub>2</sub> occurs via glutathione addition across the $\alpha,\beta$ unsaturated enone. CAY10410 was designed as an analog of the PPAR $\gamma$ -binding prostaglandins which could not undergo this conjugation reaction. In human neuroblastoma SH-SY5Y cells, CAY10410 was not cytotoxic at up to 25 $\mu$ M. It also failed to covalently modify thioredoxin or induce oxidative stress at 50 $\mu$ M.
Targets(IC <sub>50</sub> )	Others

## 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

	1mg	5mg	10mg
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

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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