

PPAR $\gamma$  phosphorylation inhibitor 1

## Chemical Properties

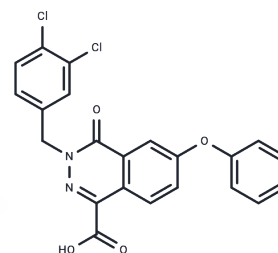
CAS No. : 2882975-84-8

Formula: C<sub>22</sub>H<sub>14</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 441.26

Storage: Keep away from moisture, Store at low temperature  
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	PPAR $\gamma$ phosphorylation inhibitor 1 (Compound 10) is an effective PPAR $\gamma$ agonist (IC <sub>50</sub> =24 nM) that inhibits CDK5-mediated PPAR $\gamma$ Ser273 phosphorylation (IC <sub>50</sub> =160 nM) and exhibits antidiabetic activity.
Targets(IC <sub>50</sub> )	PPAR

## Solubility Information

Solubility DMSO: 80 mg/mL (181.3 mM), Sonication is recommended.  
(< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2662 mL	11.3312 mL	22.6624 mL
5 mM	0.4532 mL	2.2662 mL	4.5325 mL
10 mM	0.2266 mL	1.1331 mL	2.2662 mL
50 mM	0.0453 mL	0.2266 mL	0.4532 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.

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.

## Reference

O'Mahony G, et al. Discovery by Virtual Screening of an Inhibitor of CDK5-Mediated PPAR $\gamma$  Phosphorylation. ACS Med Chem Lett. 2022;13(4):681-686. Published 2022 Mar 11.

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