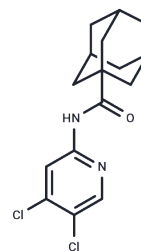


## Insulin sensitizer C59

## Chemical Properties

CAS No. :	2761446-81-3
Formula:	C <sub>16</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>2</sub> O
Molecular Weight:	325.23
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Insulin sensitizer C59 is an orally available insulin sensitizer that improves glucose uptake and can be used to study insulin-stimulated GLUT4 translocation.
Targets(IC50)	Others,IGF-1R,PDE
In vivo	Lean mice were injected with either vehicle or Insulin sensitizer C59 before performing IPGTT. Like C3, Insulin sensitizer C59 injection resulted in improved glucose tolerance compared to vehicle. Oral administration of Insulin sensitizer C59 to DIO mice by providing them with HFD supplemented with Insulin sensitizer C59 for 2 weeks also resulted in significantly improved glucose tolerance, thus demonstrating oral availability of the compound. Injection of Insulin sensitizer C59 did not result in a lower body weight compared to control, suggesting that the improved glucose tolerance is not due to decreased weight gain. [1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0747 mL	15.3737 mL	30.7475 mL
5 mM	0.6149 mL	3.0747 mL	6.1495 mL
10 mM	0.3075 mL	1.5374 mL	3.0747 mL
50 mM	0.0615 mL	0.3075 mL	0.6149 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

Yin TC, et al. Insulin sensitization by small molecules enhancing GLUT4 translocation. Cell Chem Biol. 2023 Aug 17; 30(8):933-942.e6.

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