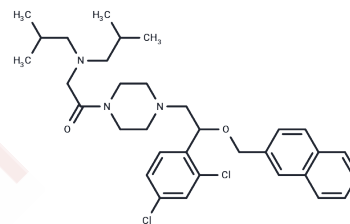


LYN-1604

## Chemical Properties

CAS No. : 2088939-99-3  
 Formula: C<sub>33</sub>H<sub>43</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 584.62  
 Appearance: no data available  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|               |                                                                                                                                           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | LYN-1604 is a novel activator of ULK1, inducing cell death involved in ATF3, RAD21, and caspase3, accompanied by autophagy and apoptosis. |
| Targets(IC50) | Apoptosis, Autophagy                                                                                                                      |

## Solubility Information

|            |                                                                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 46 mg/mL (78.68 mM), Sonication is recommended.<br>H <sub>2</sub> O: 90 mg/mL (153.95 mM), Sonication is recommended.<br>( $< 1$ mg/mL refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7105 mL | 8.5526 mL | 17.1051 mL |
| 5 mM  | 0.3421 mL | 1.7105 mL | 3.421 mL   |
| 10 mM | 0.1711 mL | 0.8553 mL | 1.7105 mL  |
| 50 mM | 0.0342 mL | 0.1711 mL | 0.3421 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.

## Reference

Zhang L, Fu L, Zhang S, Zhang J, Zhao Y, Zheng Y, He G, Yang S, Ouyang L, Liu B. Discovery of a small molecule targeting ULK1-modulated cell death of triple negative breast cancer in vitro and in vivo. Chem Sci. 2017 Apr 1;8(4):2687-2701.

Ouyang L, Zhang L, Fu L, Liu B. A small-molecule activator induces ULK1-modulating autophagy-associated cell death in triple negative breast cancer. Autophagy. 2017 Apr 3;13(4):777-778.

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