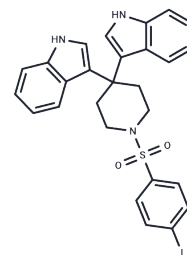


SIC5-6

## Chemical Properties

CAS No. : 2410846-16-9  
 Formula: C<sub>27</sub>H<sub>24</sub>N<sub>3</sub>O<sub>2</sub>S  
 Molecular Weight: 581.47  
 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   | SIC5-6 is a potent inhibitor of Separase, a substantial cysteine protease implicated in critical cellular processes such as chromosome segregation during mitosis and meiosis, DNA damage repair, centrosome disengagement and duplication, as well as spindle stabilization and elongation. Given its overexpression in many solid cancers, Separase presents an attractive target for chemotherapy [1]. |
| Targets(IC50) | Others  |
| In vitro      | SIC5-6 at concentrations of 30 $\mu$ M and 100 $\mu$ M enhances Caspase-1 activity and Rad21 cleavage in HeLa cells. (Rad21: Contains a Separase cleavage site that binds to the fluorescent dye Rh110 ) [1].   |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7198 mL | 8.5989 mL | 17.1978 mL |
| 5 mM  | 0.344 mL  | 1.7198 mL | 3.4396 mL  |
| 10 mM | 0.172 mL  | 0.8599 mL | 1.7198 mL  |
| 50 mM | 0.0344 mL | 0.172 mL  | 0.344 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.

**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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