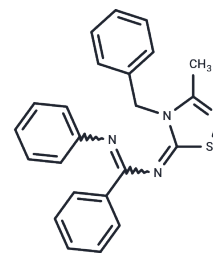


## RNF5 inhibitor inh-02

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 324579-65-9   |
| Formula:          | C <sub>23</sub> H <sub>20</sub> N <sub>4</sub> S  |
| Molecular Weight: | 384.5   |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | RNF5 inhibitor inh-02 is a selective inhibitor of the ubiquitin ligase RNF5/RMA1, which can significantly rescue F508del-CFTR (cystic fibrosis transmembrane conductance regulator with a deletion at position 508 of phenylalanine) and regulate ATG4B and paxillin, making it useful for studying cystic fibrosis (CF). |
| Targets(IC50) | E1/E2/E3 Enzyme,ATG   |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 80 mg/mL (208.06 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+90% Saline: < 7.25 mg/mL (18.86 mM),Lower concentrations may be soluble, but exact solubility limit is unknown.<br>10% DMSO+40% PEG300+5% Tween 80+45% Saline: 7.25 mg/mL (18.86 mM),Solution.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 2.6008 mL  | 13.0039 mL | 26.0078 mL  |
| 5 mM  | 0.5202 mL  | 2.6008 mL  | 5.2016 mL   |
| 10 mM | 0.2601 mL  | 1.3004 mL  | 2.6008 mL   |
| 50 mM | 0.052 mL   | 0.2601 mL  | 0.5202 mL   |

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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

Elvira Sondo, et al. Pharmacological Inhibition of the Ubiquitin Ligase RNF5 Rescues F508del-CFTR in Cystic Fibrosis Airway Epithelia. *Cell Chem Biol.* 2018 Jul 19;25(7):891-905.e8.

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