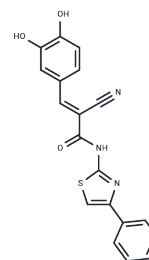


MU147

## Chemical Properties

CAS No. : 2379405-61-3  
 Formula: C<sub>19</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>S  
 Molecular Weight: 363.39  
 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   | MU147 is an MRE11 nuclease inhibitor and chemical probe with anticancer properties, exhibiting lethal effects on Ehrlich ascites tumor cells both in vivo and in vitro. It disrupts the MRE11 nuclease-dependent double-strand break repair mechanism without impairing ATM activation. Additionally, MU147 damages the degradation of nascent strands at stalled replication forks and selectively affects BRCA2-deficient cells. |
| Targets(IC50) | Endonuclease   |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7519 mL | 13.7593 mL | 27.5186 mL |
| 5 mM  | 0.5504 mL | 2.7519 mL  | 5.5037 mL  |
| 10 mM | 0.2752 mL | 1.3759 mL  | 2.7519 mL  |
| 50 mM | 0.055 mL  | 0.2752 mL  | 0.5504 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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