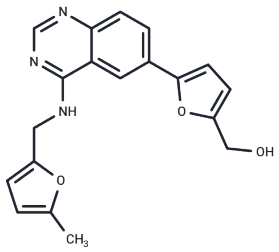
# Data Sheet (Cat.No.T2670)

TargetMol

ML167

## Chemical Properties



CAS No. : 1285702-20-6

Formula: C19H17N3O3

Molecular Weight: 335.36

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 | ML167 (CID44968231) is a highly selective Cdc2-like kinase 4 (Clk4) inhibitor. |
| Targets(IC50) | CDK,DYRK |
| In vivo | ML167 exhibits high cellular permeability and serves as a probe for Clk4 in Caco-2 assays. |

## Solubility Information

| | |
|---|---|
| Solubility | Ethanol: 11 mg/mL (32.8 mM),Sonication is recommended.<br>DMSO: 62 mg/mL (184.88 mM),Sonication is recommended.<br>H2O: < 1 mg/mL (insoluble or slightly soluble),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.98 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.9819 mL | 14.9094 mL | 29.8187 mL |
| 5 mM | 0.5964 mL | 2.9819 mL | 5.9637 mL |
| 10 mM | 0.2982 mL | 1.4909 mL | 2.9819 mL |
| 50 mM | 0.0596 mL | 0.2982 mL | 0.5964 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

Rosenthal AS, et al. Probe Reports from the NIH Molecular Libraries Program. 2010.